LSNReviews

From: Alka Jain [ajaintx@sbcglobal.net]
Sent: Friday, July 22, 2005 12:10 PM
To: Bobby Pabalan
Subject: YM Pore water data
Attachments: Additional YM Pore Waters with Br&F.xls; YM Pore Waters with Br&F.xls

Bobby,

Please view the attache files. "YM Pore Waters with Br&F" contains copied data from Streamanalyzer files. "Additional YM Pore Waters with Br&F"contains re-organized data in preferred format. Please add Brine Type in "Additional YM Pore Waters with Br&F" excel file. I will complete the calculations for next three sheets after these additions to the file.
I will be at the institute after lunch.
Thanks

Best Regards,
Alka Jain

Properties Page

Return-path: <ajaintx@sbcglobal.net>
Received: from mail.cnwra.swri.edu ([129.162.205.6])
by rogain.cnwra.swri.edu (Sun ONE Messaging Server 6.0 (built Oct 29 2003))
with ESMTP id <0IK1001MNE9ZX830@rogain.cnwra.swri.edu> for
rpabalan@cnwra.swri.edu; Fri, 22 Jul 2005 11:10:47 -0500 (CDT)
Received: from bams (bams.ccf.swri.edu [129.162.247.14])
by mail.cnwra.swri.edu (Switch-2.2.6/Switch-2.2.6) with ESMTP id
j6MGC3n02280
for <rpabalan@mail.cnwra.swri.edu>; Fri, 22 Jul 2005 11:12:03 -0500 (CDT)
Received: from virus89-in.ccf.swri.edu
(virus89-in.ccf.swri.edu [129.162.252.35])
by bams.ccf.swri.edu (iPlanet Messaging Server 5.2 HotFix 1.17 (built Jun 23
2003)) with ESMTP id <0IK100KNPE9T43@bams.ccf.swri.edu> for
rpabalan@mail.cnwra.swri.edu (ORCPT rpabalan@swri.edu); Fri,
22 Jul 2005 11:10:42 -0500 (CDT)
Received: from ccf.swri.edu (localhost [127.0.0.1]) by virus89-in.ccf.swri.edu
(8.13.1/8.13.1) with ESMTP id j6MGAX2r013331 for <rpabalan@swri.edu>; Fri,
22 Jul 2005 11:10:34 -0500 (CDT)
Received: from ([129.162.1.33]) by ironmail.ccf.swri.edu with ESMTP id
KP-GLL73.13338066; Fri, 22 Jul 2005 11:10:08 -0500
Received: from web52506.mail.yahoo.com
(web52506.mail.yahoo.com [206.190.48.189])
by mailhub.ccf.swri.edu (8.12.10/8.12.6) with SMTP id j6MG9roF028988 for
<rpabalan@swri.edu>; Fri, 22 Jul 2005 11:09:54 -0500 (CDT)
Received: (qmail 5174 invoked by uid 60001); Fri, 22 Jul 2005 16:09:51 +0000
Received: from [69.152.252.203] by web52506.mail.yahoo.com via HTTP; Fri,
22 Jul 2005 09:09:50 -0700 (PDT)
Date: Fri, 22 Jul 2005 09:09:50 -0700 (PDT)
From: Alka Jain <ajaintx@sbcglobal.net>
Subject: YM Pore water data
To: Bobby Pabalan <rpabalan@swri.edu>
Message-id: <20050722160951.5172.qmail@web52506.mail.yahoo.com>
MIME-version: 1.0
Content-type: multipart/mixed; boundary="Boundary_(ID_2fGud3jLpZqgM/7/A1bGPg)"
Content-transfer-encoding: 8BIT
Original-recipient: rfc822;rpabalan@swri.edu

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu NRG-6/ 158.2	Aqueous	Aqu NRG-6/160.8	Aqueous	Aqu NRG-6/171.0	Aqueous	Aqu NRG-6/175.6	Aqueous
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**5.6516**	**pH**	**5.88506**	**pH**	**7.58667**	**pH**	**8.42391**
Ionic Strength	0.385384	Ionic Strength	0.182357	Ionic Strength	0.309646	Ionic Strength	0.405772
Osmotic Pressure	907.523	Osmotic Pressure	878.649	Osmotic Pressure	958.778	Osmotic Pressure	1164.22
Initial Cl-	185	Initial Cl-	148	Initial Cl-	58	Initial Cl-	47
Initial NO3-	32	Initial NO3-	35	Initial NO3-	43	Initial NO3-	42
Final Cl-/NO3- ratio	1.50E+38	Final Cl-/NO3- ratio	2.87E+02	Final Cl-/NO3- ratio	5.49E+00	Final Cl-/NO3- ratio	1.04E+35
Concentration factor	5133.735341	Concentration factor	3052.187636	Concentration factor	74715.986	Concentration factor	156397.570

Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O
Bicarbonate ion(-1)	3.39E-10	**Bicarbonate ion(-1)**	4.69E-09	**Bicarbonate ion(-1)**	2.22E-08	**Bicarbonate ion(-1)**	4.35E-09
Bisulfate(VI) ion (-1)	4.96E-10	Bisulfate(VI) ion (-1)	7.13E-10	Bisulfate(VI) ion (-1)	2.34E-10	Bisulfate(VI) ion (-1)	1.20E-10
Bromide ion (-1)	8.19E-01	**Bromide ion (-1)**	4.31E-01	**Bromide ion (-1)**	1.21E+01	**Bromide ion (-1)**	5.74E+00
Calcium ion(+2)	8.08E+00	**Calcium ion(+2)**	2.47E+00	**Calcium ion(+2)**	5.22E-08	**Calcium ion(+2)**	8.80E+00
Calcium monochloride ion(+1)	3.52E-01	Calcium monochloride ion(+1)	3.24E-01	Calcium monochloride ion(+1)	3.14E-05	Calcium monochloride ion(+1)	1.95E-11
Calcium monofluoride ion(+1)	6.73E-05	Calcium monofluoride ion(+1)	2.07E-04	Calcium monofluoride ion(+1)	6.79E-05	Calcium monofluoride ion(+1)	1.02E-05
Calcium mononitrate ion(+1)	2.65E+00	**Calcium mononitrate ion(+1)**	1.65E+00	**Calcium mononitrate ion(+1)**	**4.57E+01**	**Calcium mononitrate ion(+1)**	1.64E+01
Calcium sulfate	1.37E-05	Calcium sulfate	1.23E-04	Calcium sulfate	2.75E-05	Calcium sulfate	2.25E-07
Carbon dioxide	3.17E-09	Carbon dioxide	3.50E-08	Carbon dioxide	2.57E-08	Carbon dioxide	4.99E-10
Carbonate ion(-2)	1.04E-11	**Carbonate ion(-2)**	4.89E-11	**Carbonate ion(-2)**	4.74E-07	**Carbonate ion(-2)**	7.85E-06
Chloride ion(-1)	1.38E+01	**Chloride ion(-1)**	9.59E+00	**Chloride ion(-1)**	2.87E+01	**Chloride ion(-1)**	4.24E+01
Dihydrogen hexafluorosilicate	5.45E-49	Dihydrogen hexafluorosilicate	4.89E-48	Dihydrogen hexafluorosilicate	2.34E-52	Dihydrogen hexafluorosilicate	1.78E-54
Dihydrogen orthosilicate ion(-2)	1.15E-12	Dihydrogen orthosilicate ion(-2)	5.55E-12	Dihydrogen orthosilicate ion(-2)	1.16E-07	Dihydrogen orthosilicate ion(-2)	3.35E-07
Disodium fluoride ion(+1)	6.66E-09	Disodium fluoride ion(+1)	7.15E-07	Disodium fluoride ion(+1)	5.32E-05	Disodium fluoride ion(+1)	8.79E-09
Fluoride ion(-1)	8.18E-06	**Fluoride ion(-1)**	8.25E-06	**Fluoride ion(-1)**	9.41E-05	**Fluoride ion(-1)**	6.08E-05
Magnesium ion(+2)	7.88E-01	**Magnesium ion(+2)**	7.06E-01	**Magnesium ion(+2)**	2.86E-10	**Magnesium ion(+2)**	7.22E-12
Magnesium monofluoride ion(+1)	2.08E-04	Magnesium monofluoride ion(+1)	1.11E-04	Magnesium monofluoride ion(+1)	6.08E-07	Magnesium monofluoride ion(+1)	8.90E-08
Magnesium sulfate	1.43E-04	Magnesium sulfate	2.22E-04	Magnesium sulfate	8.30E-07	Magnesium sulfate	6.63E-09
Nitrate ion(-1)	9.20E-38	**Nitrate ion(-1)**	3.34E-02	**Nitrate ion(-1)**	5.21E+00	**Nitrate ion(-1)**	4.09E-34
Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride	
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**	
Silicon dioxide (amorphous)	7.32E-04	**Silicon dioxide (amorphous)**	1.75E-03	**Silicon dioxide (amorphous)**	1.41E-03	**Silicon dioxide (amorphous)**	3.54E-05
Sodium bromide	1.66E-02	Sodium bromide	6.52E-02	Sodium bromide	5.99E-02	Sodium bromide	3.21E-03
Sodium carbonate ion(-1)	2.64E-13	Sodium carbonate ion(-1)	9.44E-12	Sodium carbonate ion(-1)	6.00E-08	Sodium carbonate ion(-1)	1.37E-08
Sodium fluoride	3.98E-09	Sodium fluoride	5.08E-07	Sodium fluoride	3.23E-06	Sodium fluoride	8.79E-10
Sodium hydrogen metasilicate	1.08E-07	Sodium hydrogen metasilicate	1.37E-05	Sodium hydrogen metasilicate	3.57E-04	Sodium hydrogen metasilicate	9.83E-08
Sodium ion(+1)	1.43E-01	**Sodium ion(+1)**	1.72E+00	**Sodium ion(+1)**	3.14E-01	**Sodium ion(+1)**	1.54E+01
Sodium nitrate	6.12E-05	**Sodium nitrate**	3.54E-02	**Sodium nitrate**	9.46E-01	**Sodium nitrate**	7.40E-03
Sodium sulfate ion(-1)	1.09E-61	Sodium sulfate ion(-1)	4.64E-44	Sodium sulfate ion(-1)	7.62E-128	Sodium sulfate ion(-1)	1.24E-126
Sulfate ion(-2)	3.12E+00	**Sulfate ion(-2)**	2.18E-04			**Sulfate ion(-2)**	6.11E-01
Trihydrogen silicate ion(-1)	3.87E-07	Trihydrogen silicate ion(-1)	3.16E-06	Trihydrogen silicate ion(-1)	1.34E-03	Trihydrogen silicate ion(-1)	1.03E-04

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu NRG-6/219.9	Aqueous	Aqu NRG-6/244.6	Aqueous	Aqu NRG-6/255.9	Aqueous	Aq NRG-7a/460.25	Aqueous
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**10.183**	**pH**	**8.45521**	**pH**	**6.19575**	**pH**	**10.7269**
Ionic Strength	0.133929	Ionic Strength	0.142499	Ionic Strength	0.14159	Ionic Strength	0.138297
Osmotic Pressure	838.681	Osmotic Pressure	831.262	Osmotic Pressure	827.778	Osmotic Pressure	859.338
Initial Cl-	77	Initial Cl-	49	Initial Cl-	115	Initial Cl-	7
Initial NO3-	47	Initial NO3-	40	Initial NO3-	35	Initial NO3-	1
Final Cl-/NO3- ratio	8.75E-01	Final Cl-/NO3- ratio	6.72E-01	Final Cl-/NO3- ratio	7.10E-01	Final Cl-/NO3- ratio	2.30E+01
Concentration factor	7693.822	Concentration factor	10670.204	Concentration factor	11558..027	Concentration factor	26829.198

Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg	Species	Aqueous mol/kg H2O
Bicarbonate ion(-1)	1.38E-03	**Bicarbonate ion(-1)**	1.93E-05	**Bicarbonate ion(-1)**	1.38E-07	**Bicarbonate ion(-1)**	3.52E-03
Bisulfate(VI) ion (-1)	8.69E-11	Bisulfate(VI) ion (-1)	8.68E-09	Bisulfate(VI) ion (-1)	1.65E-06	Bisulfate(VI) ion (-1)	8.38E-12
Bromide ion (-1)	9.56E-01	**Bromide ion (-1)**	1.30E+00	**Bromide ion (-1)**	1.41E+00	**Bromide ion (-1)**	3.70E+00
Calcium ion(+2)	4.42E-07	**Calcium ion(+2)**	1.66E-03	**Calcium ion(+2)**	1.55E-03	**Calcium ion(+2)**	8.06E-09
Calcium monochloride ion(+1)	7.10E-07	Calcium monochloride ion(+1)	3.69E-03	Calcium monochloride ion(+1)	3.06E-03	Calcium monochloride ion(+1)	1.97E-08
Calcium monofluoride ion(+1)	1.34E-07	Calcium monofluoride ion(+1)	8.86E-06	Calcium monofluoride ion(+1)	2.07E-07	Calcium monofluoride ion(+1)	3.93E-08
Calcium mononitrate ion(+1)	6.83E-06	**Calcium mononitrate ion(+1)**	3.16E-02	**Calcium mononitrate ion(+1)**	3.12E-02	**Calcium mononitrate ion(+1)**	3.48E-08
Calcium sulfate	2.63E-08	Calcium sulfate	2.20E-04	Calcium sulfate	2.19E-04	Calcium sulfate	6.18E-10
Carbon dioxide	5.36E-08	Carbon dioxide	3.41E-08	Carbon dioxide	4.80E-08	Carbon dioxide	4.46E-08
Carbonate ion(-2)	4.98E-02	**Carbonate ion(-2)**	1.19E-05	**Carbonate ion(-2)**	4.91E-10	**Carbonate ion(-2)**	3.52E-01
Chloride ion(-1)	4.38E+00	**Chloride ion(-1)**	4.03E+00	**Chloride ion(-1)**	4.00E+00	**Chloride ion(-1)**	5.19E+00
Dihydrogen hexafluorosilicate	3.50E-51	Dihydrogen hexafluorosilicate	1.00E-51	Dihydrogen hexafluorosilicate	8.69E-48	Dihydrogen hexafluorosilicate	1.63E-51
Dihydrogen orthosilicate ion(-2)	4.49E-03	Dihydrogen orthosilicate ion(-2)	1.59E-06	Dihydrogen orthosilicate ion(-2)	4.61E-11	Dihydrogen orthosilicate ion(-2)	5.25E-02
Disodium fluoride ion(+1)	5.47E-02	Disodium fluoride ion(+1)	8.89E-04	Disodium fluoride ion(+1)	2.07E-05	Disodium fluoride ion(+1)	1.73E-01
Fluoride ion(-1)	1.84E-02	**Fluoride ion(-1)**	2.76E-04	**Fluoride ion(-1)**	7.22E-06	**Fluoride ion(-1)**	4.75E-02
Magnesium ion(+2)	1.84E-09	**Magnesium ion(+2)**	3.73E-06	**Magnesium ion(+2)**	1.36E-01	**Magnesium ion(+2)**	
Magnesium monofluoride ion(+1)	1.47E-09	Magnesium monofluoride ion(+1)	6.44E-08	Magnesium monofluoride ion(+1)	5.30E-05	Magnesium monofluoride ion(+1)	
Magnesium sulfate	9.71E-10	Magnesium sulfate	5.39E-06	Magnesium sulfate	1.89E-01	Magnesium sulfate	
Nitrate ion(-1)	5.01E+00	***Nitrate ion(-1)***	5.99E+00	***Nitrate ion(-1)***	5.64E+00	**Nitrate ion(-1)**	2.26E-01
Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride	1.04E-01
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**	4.53E+00
Silicon dioxide (amorphous)	2.26E-03	**Silicon dioxide (amorphous)**	2.16E-03	**Silicon dioxide (amorphous)**	2.14E-03	**Silicon dioxide (amorphous)**	1.29E-03
Sodium bromide	2.95E-01	Sodium bromide	4.31E-01	Sodium bromide	4.70E-01	Sodium bromide	6.60E-01
Sodium carbonate ion(-1)	1.62E-02	Sodium carbonate ion(-1)	3.93E-06	Sodium carbonate ion(-1)	1.63E-10	Sodium carbonate ion(-1)	1.79E-01
Sodium fluoride	1.90E-02	Sodium fluoride	2.93E-04	Sodium fluoride	7.02E-06	Sodium fluoride	5.17E-02
Sodium hydrogen metasilicate	1.90E+00	Sodium hydrogen metasilicate	3.59E-02	Sodium hydrogen metasilicate	1.90E-04	Sodium hydrogen metasilicate	3.44E+00
Sodium ion(+1)	1.06E+01	**Sodium ion(+1)**	1.13E+01	**Sodium ion(+1)**	1.07E+01	**Sodium ion(+1)**	6.07E+00
Sodium nitrate	*8.24E-01*	**Sodium nitrate**	*8.61E-01*	***Sodium nitrate***	*8.56E-01*	***Sodium nitrate***	*2.07E-01*
Sodium sulfate ion(-1)	8.13E-20	Sodium sulfate ion(-1)	5.50E-18	Sodium sulfate ion(-1)	7.73E-18	Sodium sulfate ion(-1)	5.28E-24
Sulfate ion(-2)	1.13E-05	**Sulfate ion(-2)**	8.84E-06	**Sulfate ion(-2)**	1.32E-05	**Sulfate ion(-2)**	2.97E-02
Trihydrogen silicate ion(-1)	1.34E-01	Trihydrogen silicate ion(-1)	2.37E-03	Trihydrogen silicate ion(-1)	1.27E-05	Trihydrogen silicate ion(-1)	5.26E-01

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)
Aq SD-12/495.5	Aqueous	Aqu SD-12/296.1	Aqueous	Aqu SD-6/1509.9	Aqueous	Aqu SD-6/412.2	Aqueous	Aqu SD-6/443.5
		Brine Type		**Brine Type**		**Brine Type**		**Brine Type**
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure
pH	**10.7507**	**pH**	**10.7507**	**pH**	**10.5203**	**pH**	**8.03638**	**pH**
Ionic Strength	0.118618	Ionic Strength	0.118618	Ionic Strength	0.138059	Ionic Strength	0.148967	Ionic Strength
Osmotic Pressure	869.369	Osmotic Pressure	869.369	Osmotic Pressure	862.668	Osmotic Pressure	828.717	Osmotic Pressure
Initial Cl-	57	Initial Cl-	60	Initial Cl-	98.7	Initial Cl-	47.2	Initial Cl-
Initial NO3-	8.1	Initial NO3-	18	Initial NO3-	1.8	Initial NO3-	78.2	Initial NO3-
Final Cl-/NO3- ratio	4.68E+00	Final Cl-/NO3- ratio	3.83E+39	Final Cl-/NO3- ratio	1.89E+01	Final Cl-/NO3- ratio	6.74E-01	Final Cl-/NO3- ratio
Concentration factor	11707.51	Concentration factor	17731.409	Concentration factor	20068.766	Concentration factor	6078.585	Concentration factor
	Aqueous		Aqueous		Aqueous		Aqueous	
Species	mol/kg H2C	Species	mol/kg H2O	Species	mol/kg H2O	Species	mol/kg H2O	Species
Bicarbonate ion(-1)	2.94E-03	**Bicarbonate ion(-1)**	1.22E-08	**Bicarbonate ion(-1)**	4.37E-03	**Bicarbonate ion(-1)**	1.38E-05	**Bicarbonate ion(-1)**
Bisulfate(VI) ion (-1)	1.11E-11	Bisulfate(VI) ion (-1)	2.82E-11	Bisulfate(VI) ion (-1)	1.85E-11	Bisulfate(VI) ion (-1)	6.41E-09	Bisulfate(VI) ion (-1)
Bromide ion (-1)	1.52E+00	**Bromide ion (-1)**	2.82E+00	**Bromide ion (-1)**	2.76E+00	**Bromide ion (-1)**	7.61E-01	**Bromide ion (-1)**
Calcium ion(+2)	2.97E-08	**Calcium ion(+2)**	8.18E+00	**Calcium ion(+2)**	1.20E-08	**Calcium ion(+2)**	7.51E-03	**Calcium ion(+2)**
Calcium monochloride ion(+1)	4.29E-08	Calcium monochloride ion(+1)	6.19E-01	Calcium monochloride ion(+1)	2.35E-08	Calcium monochloride ion(+1)	1.15E-02	Calcium monochloride ion(+1)
Calcium monofluoride ion(+1)	2.82E-08	Calcium monofluoride ion(+1)	4.57E-04	Calcium monofluoride ion(+1)	2.71E-08	Calcium monofluoride ion(+1)	1.64E-05	Calcium monofluoride ion(+1)
Calcium mononitrate ion(+1)	2.40E-07	**Calcium mononitrate ion(+1)**	5.15E+00	**Calcium mononitrate ion(+1)**	5.69E-08	**Calcium mononitrate ion(+1)**	1.04E-01	**Calcium mononitrate ion(+1)**
Calcium sulfate	1.03E-09	Calcium sulfate	1.63E-05	Calcium sulfate	8.94E-10	Calcium sulfate	2.20E-04	Calcium sulfate
Carbon dioxide	3.40E-08	Carbon dioxide	1.10E-08	Carbon dioxide	1.06E-07	Carbon dioxide	7.15E-08	Carbon dioxide
Carbonate ion(-2)	4.44E-01	**Carbonate ion(-2)**	2.77E-09	**Carbonate ion(-2)**	3.34E-01	**Carbonate ion(-2)**	3.23E-06	**Carbonate ion(-2)**
Chloride ion(-1)	4.75E+00	**Chloride ion(-1)**	1.34E+01	**Chloride ion(-1)**	6.15E+00	**Chloride ion(-1)**	4.52E+00	**Chloride ion(-1)**
Dihydrogen hexafluorosilicate	8.26E-53	Dihydrogen hexafluorosilicate	9.87E-52	Dihydrogen hexafluorosilicate	2.47E-51	Dihydrogen hexafluorosilicate	8.44E-51	Dihydrogen hexafluorosilicate
Dihydrogen orthosilicate ion(-2)	6.21E-02	Dihydrogen orthosilicate ion(-2)	1.17E-10	Dihydrogen orthosilicate ion(-2)	3.01E-02	Dihydrogen orthosilicate ion(-2)	2.54E-07	Dihydrogen orthosilicate ion(-2)
Disodium fluoride ion(+1)	1.24E-01	Disodium fluoride ion(+1)	3.88E-08	Disodium fluoride ion(+1)	1.19E-01	Disodium fluoride ion(+1)	4.17E-04	Disodium fluoride ion(+1)
Fluoride ion(-1)	3.94E-02	**Fluoride ion(-1)**	2.32E-05	**Fluoride ion(-1)**	3.04E-02	**Fluoride ion(-1)**	1.40E-04	**Fluoride ion(-1)**
Magnesium ion(+2)	3.11E-10	**Magnesium ion(+2)**	4.08E-03	**Magnesium ion(+2)**	2.45E-10	**Magnesium ion(+2)**	2.23E-05	**Magnesium ion(+2)**
Magnesium monofluoride ion(+1)	2.14E-10	Magnesium monofluoride ion(+1)	7.85E-06	Magnesium monofluoride ion(+1)	6.67E-10	Magnesium monofluoride ion(+1)	2.43E-07	Magnesium monofluoride ion(+1)
Magnesium sulfate	2.60E-11	Magnesium sulfate	9.47E-07	Magnesium sulfate	7.38E-11	Magnesium sulfate	1.10E-05	Magnesium sulfate
Nitrate ion(-1)	1.02E+00	***Nitrate ion(-1)***	3.50E-39	***Nitrate ion(-1)***	3.26E-01	**Nitrate ion(-1)**	6.71E+00	**Nitrate ion(-1)**
Potassium chloride		Potassium chloride		Potassium chloride	1.06E-01	Potassium chloride	1.57E-02	Potassium chloride
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**	4.12E+00	**Potassium ion(+1)**	9.87E-01	**Potassium ion(+1)**
Silicon dioxide (amorphous)	2.09E-03	**Silicon dioxide (amorphous)**	8.28E-04	**Silicon dioxide (amorphous)**	2.02E-03	**Silicon dioxide (amorphous)**	2.23E-03	**Silicon dioxide (amorphous)**
Sodium bromide	3.85E-01	Sodium bromide	6.02E-02	Sodium bromide	5.07E-01	Sodium bromide	2.28E-01	Sodium bromide
Sodium carbonate ion(-1)	1.59E-01	Sodium carbonate ion(-1)	8.82E-11	Sodium carbonate ion(-1)	1.72E-01	Sodium carbonate ion(-1)	1.08E-06	Sodium carbonate ion(-1)
Sodium fluoride	3.70E-02	Sodium fluoride	2.00E-08	Sodium fluoride	3.22E-02	Sodium fluoride	1.47E-04	Sodium fluoride
Sodium hydrogen metasilicate	6.78E+00	Sodium hydrogen metasilicate	1.60E-06	Sodium hydrogen metasilicate	3.28E+00	Sodium hydrogen metasilicate	1.27E-02	Sodium hydrogen metasilicate
Sodium ion(+1)	8.96E+00	**Sodium ion(+1)**	1.76E-01	**Sodium ion(+1)**	6.52E+00	**Sodium ion(+1)**	1.09E+01	**Sodium ion(+1)**
Sodium nitrate	*5.14E-01*	***Sodium nitrate***	*9.48E-05*	***Sodium nitrate***	*2.57E-01*	***Sodium nitrate***	*8.53E-01*	***Sodium nitrate***
Sodium sulfate ion(-1)	6.32E-22	Sodium sulfate ion(-1)	4.35E-60	Sodium sulfate ion(-1)	1.01E-27	Sodium sulfate ion(-1)	1.80E-20	Sodium sulfate ion(-1)
Sulfate ion(-2)	4.75E-03	**Sulfate ion(-2)**	3.05E+00	**Sulfate ion(-2)**	3.64E-02	**Sulfate ion(-2)**	1.53E-06	**Sulfate ion(-2)**
Trihydrogen silicate ion(-1)	5.73E-01	Trihydrogen silicate ion(-1)	4.76E-06	Trihydrogen silicate ion(-1)	4.77E-01	Trihydrogen silicate ion(-1)	9.69E-04	Trihydrogen silicate ion(-1)

Aqueous	Species Output (True Species) Aqu SD-6/471.3	Aqueous	Species Output (True Species) Aqu SD-6/507.5	Aqueous	Species Output (True Species) Aqu SD-6/522.5	Aqueous	Species Output (True Species) Aqu SD-7/370.3	Aqueous
	Brine Type		**Brine Type**				**Brine Type**	
110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
8.34789	**pH**	**7.31338**	**pH**	**6.19305**	**pH**	**9.74138**	**pH**	**6.86283**
0.14838	Ionic Strength	0.172936	Ionic Strength	0.141457	Ionic Strength	0.142221	Ionic Strength	0.175782
828.911	Osmotic Pressure	795.567	Osmotic Pressure	828.708	Osmotic Pressure	834.112	Osmotic Pressure	894.287
47.3	Initial Cl-	66.8	Initial Cl-	20.3	Initial Cl-	26.3	Initial Cl-	133
86	Initial NO3-	67.3	Initial NO3-	25.7	Initial NO3-	34.5	Initial NO3-	0.6
6.20E-01	Final Cl-/NO3- ratio	1.98E+00	Final Cl-/NO3- ratio	8.52E-01	Final Cl-/NO3- ratio	9.21E-01	Final Cl-/NO3- ratio	9.04E+03
5642.594	Concentration factor	12037.8	Concentration factor	14134.06	Concentration factor	10680.901	Concentration factor	3319.043
Aqueous mol/kg H2O	Species	Aqueous mol/kg H2C	Species	Aqueous mol/kg H2C	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg
2.75E-05	**Bicarbonate ion(-1)**	7.20E-07	**Bicarbonate ion(-1)**	1.96E-07	**Bicarbonate ion(-1)**	8.47E-04	**Bicarbonate ion(-1)**	3.57E-08
1.21E-08	Bisulfate(VI) ion (-1)	7.72E-10	Bisulfate(VI) ion (-1)	1.64E-06	Bisulfate(VI) ion (-1)	4.88E-10	Bisulfate(VI) ion (-1)	8.06E-11
6.98E-01	**Bromide ion (-1)**	1.73E+00	**Bromide ion (-1)**	1.75E+00	**Bromide ion (-1)**	1.35E+00	**Bromide ion (-1)**	4.39E-01
2.05E-03	**Calcium ion(+2)**	5.00E-02	**Calcium ion(+2)**	1.28E-03	**Calcium ion(+2)**	1.55E-06	**Calcium ion(+2)**	3.28E+00
3.34E-03	Calcium monochloride ion(+1)	2.87E-02	Calcium monochloride ion(+1)	2.62E-03	Calcium monochloride ion(+1)	2.65E-06	Calcium monochloride ion(+1)	3.70E-01
8.36E-06	Calcium monofluoride ion(+1)	1.01E-04	Calcium monofluoride ion(+1)	2.08E-07	Calcium monofluoride ion(+1)	2.79E-07	Calcium monofluoride ion(+1)	3.78E-04
2.78E-02	**Calcium mononitrate ion(+1)**	7.74E+00	**Calcium mononitrate ion(+1)**	2.82E-02	**Calcium mononitrate ion(+1)**	2.64E-05	**Calcium mononitrate ion(+1)**	3.02E-02
2.21E-04	Calcium sulfate	2.02E-04	Calcium sulfate	2.15E-04	Calcium sulfate	2.34E-07	Calcium sulfate	1.35E-04
6.49E-08	Carbon dioxide	6.69E-08	Carbon dioxide	7.33E-08	Carbon dioxide	9.47E-08	Carbon dioxide	2.43E-08
1.31E-05	**Carbonate ion(-2)**	1.01E-07	**Carbonate ion(-2)**	6.75E-10	**Carbonate ion(-2)**	1.00E-02	**Carbonate ion(-2)**	2.55E-09
4.30E+00	**Chloride ion(-1)**	8.74E+00	**Chloride ion(-1)**	4.27E+00	**Chloride ion(-1)**	4.75E+00	**Chloride ion(-1)**	8.67E+00
6.54E-51	Dihydrogen hexafluorosilicate	3.64E-51	Dihydrogen hexafluorosilicate	8.55E-48	Dihydrogen hexafluorosilicate	1.93E-50	Dihydrogen hexafluorosilicate	3.91E-52
1.03E-06	Dihydrogen orthosilicate ion(-2)	1.48E-08	Dihydrogen orthosilicate ion(-2)	4.86E-11	Dihydrogen orthosilicate ion(-2)	6.68E-04	Dihydrogen orthosilicate ion(-2)	4.19E-10
8.39E-04	Disodium fluoride ion(+1)	6.35E-05	Disodium fluoride ion(+1)	2.09E-05	Disodium fluoride ion(+1)	2.59E-02	Disodium fluoride ion(+1)	1.89E-06
2.81E-04	**Fluoride ion(-1)**	3.44E-05	**Fluoride ion(-1)**	6.75E-06	**Fluoride ion(-1)**	7.88E-03	**Fluoride ion(-1)**	1.50E-05
5.77E-06	**Magnesium ion(+2)**	9.37E-05	**Magnesium ion(+2)**	1.19E-01	**Magnesium ion(+2)**	8.86E-09	**Magnesium ion(+2)**	1.31E-02
1.13E-07	Magnesium monofluoride ion(+1)	1.16E-06	Magnesium monofluoride ion(+1)	5.34E-05	Magnesium monofluoride ion(+1)	5.47E-09	Magnesium monofluoride ion(+1)	2.36E-06
1.01E-05	Magnesium sulfate	7.81E-06	Magnesium sulfate	1.86E-01	Magnesium sulfate	1.55E-08	Magnesium sulfate	2.85E-06
6.93E+00	**Nitrate ion(-1)**	4.42E+00	**Nitrate ion(-1)**	5.01E+00	**Nitrate ion(-1)**	5.15E+00	**Nitrate ion(-1)**	9.59E-04
8.48E-03	Potassium chloride	1.53E-02	Potassium chloride	1.51E-02	Potassium chloride	2.85E-02	Potassium chloride	
5.52E-01	**Potassium ion(+1)**	7.85E-01	**Potassium ion(+1)**	8.24E-01	**Potassium ion(+1)**	1.56E+00	**Potassium ion(+1)**	
2.21E-03	**Silicon dioxide (amorphous)**	2.71E-03	**Silicon dioxide (amorphous)**	2.15E-03	**Silicon dioxide (amorphous)**	2.23E-03	**Silicon dioxide (amorphous)**	1.81E-03
2.20E-01	Sodium bromide	2.27E-01	Sodium bromide	5.45E-01	Sodium bromide	3.84E-01	Sodium bromide	1.01E-01
4.22E-06	Sodium carbonate ion(-1)	2.92E-08	Sodium carbonate ion(-1)	2.47E-10	Sodium carbonate ion(-1)	3.78E-03	Sodium carbonate ion(-1)	6.63E-10
2.94E-04	Sodium fluoride	2.12E-05	Sodium fluoride	6.91E-06	Sodium fluoride	8.77E-03	Sodium fluoride	1.27E-06
2.64E-02	Sodium hydrogen metasilicate	2.07E-03	Sodium hydrogen metasilicate	1.87E-04	Sodium hydrogen metasilicate	6.55E-01	Sodium hydrogen metasilicate	1.68E-04
1.14E+01	**Sodium ion(+1)**	6.23E+00	**Sodium ion(+1)**	9.97E+00	**Sodium ion(+1)**	9.80E+00	**Sodium ion(+1)**	2.11E+00
8.67E-01	**Sodium nitrate**	9.06E-01	**Sodium nitrate**	8.16E-01	**Sodium nitrate**	7.94E-01	**Sodium nitrate**	9.98E-04
5.45E-19	Sodium sulfate ion(-1)	6.17E-39	Sodium sulfate ion(-1)	6.33E-19	Sodium sulfate ion(-1)	7.72E-21	Sodium sulfate ion(-1)	3.00E-40
4.00E-06	**Sulfate ion(-2)**	3.05E-07	**Sulfate ion(-2)**	3.81E-05	**Sulfate ion(-2)**	4.30E-05	**Sulfate ion(-2)**	4.27E-04
1.88E-03	Trihydrogen silicate ion(-1)	3.28E-04	Trihydrogen silicate ion(-1)	1.40E-05	Trihydrogen silicate ion(-1)	5.46E-02	Trihydrogen silicate ion(-1)	2.56E-05

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)
Aqu SD-9/114.1	Aqueous	Aqu SD-9/135.1	Aqueous	Aqu SD-9/176.2	Aqueous	Aqu SD-9/94.2	Aqueous	Aqu UZ-14/1258.5
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**		**Brine Type**
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure
pH	**5.60145**	**pH**	**5.81462**	**pH**	**8.15765**	**pH**	**5.84744**	**pH**
Ionic Strength	0.385566	Ionic Strength	0.176598	Ionic Strength	0.121733	Ionic Strength	0.176584	Ionic Strength
Osmotic Pressure	895.161	Osmotic Pressure	883.699	Osmotic Pressure	849.147	Osmotic Pressure	893.436	Osmotic Pressure
Initial Cl-	138	Initial Cl-	144	Initial Cl-	64	Initial Cl-	170	Initial Cl-
Initial NO3-	10.9	Initial NO3-	12	Initial NO3-	1.9	Initial NO3-	11	Initial NO3-
Final Cl-/NO3- ratio	1.16E+40	Final Cl-/NO3- ratio	3.44E+02	Final Cl-/NO3- ratio	4.28E+00	Final Cl-/NO3- ratio	6.40E+02	Final Cl-/NO3- ratio
Concentration factor	17804.66	Concentration factor	5310.652	Concentration factor	43039.8	Concentration factor	2474.843	Concentration factor
	Aqueous		Aqueous		Aqueous		Aqueous	
Species	mol/kg H2C	Species	mol/kg H2O	Species	mol/kg H2O	Species	mol/kg H2O	Species
Bicarbonate ion(-1)	3.76E-10	**Bicarbonate ion(-1)**	2.93E-09	**Bicarbonate ion(-1)**	1.88E-05	**Bicarbonate ion(-1)**	2.85E-09	**Bicarbonate ion(-1)**
Bisulfate(VI) ion (-1)	4.20E-10	Bisulfate(VI) ion (-1)	1.34E-09	Bisulfate(VI) ion (-1)	1.01E-08	Bisulfate(VI) ion (-1)	1.59E-09	Bisulfate(VI) ion (-1)
Bromide ion (-1)	2.83E+00	**Bromide ion (-1)**	7.49E-01	**Bromide ion (-1)**	5.15E+00	**Bromide ion (-1)**	3.49E-01	**Bromide ion (-1)**
Calcium ion(+2)	8.11E+00	**Calcium ion(+2)**	1.85E+00	**Calcium ion(+2)**	3.84E-04	**Calcium ion(+2)**	1.85E+00	**Calcium ion(+2)**
Calcium monochloride ion(+1)	5.90E-01	Calcium monochloride ion(+1)	2.82E-01	Calcium monochloride ion(+1)	4.02E-03	Calcium monochloride ion(+1)	2.25E-01	Calcium monochloride ion(+1)
Calcium monofluoride ion(+1)	8.15E-05	Calcium monofluoride ion(+1)	1.12E-04	Calcium monofluoride ion(+1)	1.22E-05	Calcium monofluoride ion(+1)	9.01E-05	Calcium monofluoride ion(+1)
Calcium mononitrate ion(+1)	3.13E+00	**Calcium mononitrate ion(+1)**	9.72E-01	**Calcium mononitrate ion(+1)**	1.57E-02	**Calcium mononitrate ion(+1)**	4.10E-01	**Calcium mononitrate ion(+1)**
Calcium sulfate	1.44E-05	Calcium sulfate	1.24E-04	Calcium sulfate	1.99E-04	Calcium sulfate	1.20E-04	Calcium sulfate
Carbon dioxide	2.76E-09	Carbon dioxide	2.22E-08	Carbon dioxide	5.82E-08	Carbon dioxide	2.15E-08	Carbon dioxide
Carbonate ion(-2)	7.73E-12	**Carbonate ion(-2)**	2.30E-11	**Carbonate ion(-2)**	5.42E-06	**Carbonate ion(-2)**	2.50E-11	**Carbonate ion(-2)**
Chloride ion(-1)	1.23E+01	**Chloride ion(-1)**	8.59E+00	**Chloride ion(-1)**	3.33E+00	**Chloride ion(-1)**	8.62E+00	**Chloride ion(-1)**
Dihydrogen hexafluorosilicate	5.74E-49	Dihydrogen hexafluorosilicate	4.92E-48	Dihydrogen hexafluorosilicate	7.01E-51	Dihydrogen hexafluorosilicate	4.76E-48	Dihydrogen hexafluorosilicate
Dihydrogen orthosilicate ion(-2)	9.61E-13	Dihydrogen orthosilicate ion(-2)	3.68E-12	Dihydrogen orthosilicate ion(-2)	3.82E-07	Dihydrogen orthosilicate ion(-2)	3.84E-12	Dihydrogen orthosilicate ion(-2)
Disodium fluoride ion(+1)	7.49E-09	Disodium fluoride ion(+1)	5.13E-07	Disodium fluoride ion(+1)	1.22E-03	Disodium fluoride ion(+1)	4.37E-07	Disodium fluoride ion(+1)
Fluoride ion(-1)	7.20E-06	**Fluoride ion(-1)**	7.23E-06	**Fluoride ion(-1)**	2.04E-04	**Fluoride ion(-1)**	8.05E-06	**Fluoride ion(-1)**
Magnesium ion(+2)	6.76E-01	**Magnesium ion(+2)**	1.36E+00	**Magnesium ion(+2)**	1.05E-05	**Magnesium ion(+2)**	1.55E+00	**Magnesium ion(+2)**
Magnesium monofluoride ion(+1)	2.34E-04	Magnesium monofluoride ion(+1)	1.29E-04	Magnesium monofluoride ion(+1)	1.75E-07	Magnesium monofluoride ion(+1)	1.20E-04	Magnesium monofluoride ion(+1)
Magnesium sulfate	1.40E-04	Magnesium sulfate	4.81E-04	Magnesium sulfate	9.64E-06	Magnesium sulfate	5.37E-04	Magnesium sulfate
Nitrate ion(-1)	1.07E-39	**Nitrate ion(-1)**	2.50E-02	**Nitrate ion(-1)**	7.78E-01	**Nitrate ion(-1)**	1.35E-02	**Nitrate ion(-1)**
Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**
Silicon dioxide (amorphous)	7.02E-04	**Silicon dioxide (amorphous)**	1.65E-03	**Silicon dioxide (amorphous)**	1.87E-03	**Silicon dioxide (amorphous)**	1.60E-03	**Silicon dioxide (amorphous)**
Sodium bromide	6.25E-02	Sodium bromide	1.15E-01	Sodium bromide	1.85E+00	Sodium bromide	5.39E-02	Sodium bromide
Sodium carbonate ion(-1)	2.15E-13	Sodium carbonate ion(-1)	4.21E-12	Sodium carbonate ion(-1)	2.71E-06	Sodium carbonate ion(-1)	4.34E-12	Sodium carbonate ion(-1)
Sodium fluoride	4.20E-09	Sodium fluoride	4.01E-07	Sodium fluoride	2.65E-04	Sodium fluoride	3.72E-07	Sodium fluoride
Sodium hydrogen metasilicate	1.13E-07	Sodium hydrogen metasilicate	1.08E-05	Sodium hydrogen metasilicate	2.31E-02	Sodium hydrogen metasilicate	1.00E-05	Sodium hydrogen metasilicate
Sodium ion(+1)	1.41E-01	**Sodium ion(+1)**	1.70E+00	**Sodium ion(+1)**	9.27E+00	**Sodium ion(+1)**	1.54E+00	**Sodium ion(+1)**
Sodium nitrate	6.16E-05	**Sodium nitrate**	3.08E-02	**Sodium nitrate**	5.25E-01	**Sodium nitrate**	1.58E-02	**Sodium nitrate**
Sodium sulfate ion(-1)	1.29E-55	Sodium sulfate ion(-1)	7.57E-40	Sodium sulfate ion(-1)	1.76E-15	Sodium sulfate ion(-1)	6.85E-40	Sodium sulfate ion(-1)
Sulfate ion(-2)	3.14E+00	**Sulfate ion(-2)**	2.13E-04	**Sulfate ion(-2)**	1.54E-02	**Sulfate ion(-2)**	2.77E-04	**Sulfate ion(-2)**
Trihydrogen silicate ion(-1)	3.66E-07	Trihydrogen silicate ion(-1)	2.55E-06	Trihydrogen silicate ion(-1)	1.39E-03	Trihydrogen silicate ion(-1)	2.47E-06	Trihydrogen silicate ion(-1)

Aqueous	Species Output (True Species) Aqu UZ-14/1277.7	Aqueous	Species Output (True Species) Aqu UZ-14/1409.4	Aqueous	Species Output (True Species) Aqu UZ-14/1542.3	Aqueous	Species Output (True Species) Aqu UZ-14/178.1	
	Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
10.3605	**pH**	**6.59991**	**pH**	**10.1134**	**pH**	**10.3013**	**pH**	**8.22956**
0.127419	Ionic Strength	0.178942	Ionic Strength	0.120201	Ionic Strength	0.129861	Ionic Strength	0.406305
848.225	Osmotic Pressure	882.973	Osmotic Pressure	849.625	Osmotic Pressure	876.159	Osmotic Pressure	1132.21
88	Initial Cl-	130	Initial Cl-	75	Initial Cl-	20	Initial Cl-	97
16	Initial NO3-	15	Initial NO3-	5	Initial NO3-	4	Initial NO3-	21
1.38E+00	Final Cl-/NO3- ratio		Final Cl-/NO3- ratio	2.37E+00	Final Cl-/NO3- ratio	1.64E+01	Final Cl-/NO3- ratio	1.10E+31
14932.143	Concentration factor	4292.63	Concentration factor	28410.578	Concentration factor	12357.905	Concentration factor	40355.66
Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg	Species	Aqueous mol/kg H2O
3.14E-03	**Bicarbonate ion(-1)**	5.05E-08	**Bicarbonate ion(-1)**	1.51E-03	**Bicarbonate ion(-1)**	3.30E-03	**Bicarbonate ion(-1)**	4.47E-09
3.90E-11	Bisulfate(VI) ion (-1)	1.18E-10	Bisulfate(VI) ion (-1)	9.21E-11	Bisulfate(VI) ion (-1)	1.65E-11	Bisulfate(VI) ion (-1)	9.99E-11
1.87E+00	**Bromide ion (-1)**	5.84E-01	**Bromide ion (-1)**	3.49E+00	**Bromide ion (-1)**	1.57E+00	**Bromide ion (-1)**	6.11E+00
7.41E-08	**Calcium ion(+2)**	3.11E+00	**Calcium ion(+2)**	1.15E-07	**Calcium ion(+2)**	2.95E-08	**Calcium ion(+2)**	9.13E+00
1.60E-07	Calcium monochloride ion(+1)	4.07E-01	Calcium monochloride ion(+1)	5.05E-07	Calcium monochloride ion(+1)	8.91E-08	Calcium monochloride ion(+1)	1.27E-10
4.64E-08	Calcium monofluoride ion(+1)	4.28E-04	Calcium monofluoride ion(+1)	8.91E-08	Calcium monofluoride ion(+1)	3.78E-08	Calcium monofluoride ion(+1)	1.51E-05
1.51E-06	**Calcium mononitrate ion(+1)**	9.92E-01	**Calcium mononitrate ion(+1)**	3.58E-06	**Calcium mononitrate ion(+1)**	1.93E-07	**Calcium mononitrate ion(+1)**	1.37E+01
4.48E-09	Calcium sulfate	1.33E-04	Calcium sulfate	2.15E-08	Calcium sulfate	7.83E-10	Calcium sulfate	2.44E-07
7.87E-08	Carbon dioxide	6.52E-08	Carbon dioxide	6.36E-08	Carbon dioxide	1.35E-07	Carbon dioxide	5.28E-10
1.71E-01	**Carbonate ion(-2)**	2.21E-09	**Carbonate ion(-2)**	4.38E-02	**Carbonate ion(-2)**	2.59E-01	**Carbonate ion(-2)**	3.48E-06
4.29E+00	**Chloride ion(-1)**	9.14E+00	**Chloride ion(-1)**	3.90E+00	**Chloride ion(-1)**	6.97E+00	**Chloride ion(-1)**	4.03E+01
1.01E-51	Dihydrogen hexafluorosilicate	7.11E-51	Dihydrogen hexafluorosilicate	5.80E-52	Dihydrogen hexafluorosilicate	5.71E-51	Dihydrogen hexafluorosilicate	2.69E-54
1.01E-02	Dihydrogen orthosilicate ion(-2)	1.43E-10	Dihydrogen orthosilicate ion(-2)	3.13E-03	Dihydrogen orthosilicate ion(-2)	7.84E-03	Dihydrogen orthosilicate ion(-2)	1.35E-07
7.89E-02	Disodium fluoride ion(+1)	1.74E-06	Disodium fluoride ion(+1)	5.31E-02	Disodium fluoride ion(+1)	1.66E-01	Disodium fluoride ion(+1)	4.96E-09
2.32E-02	**Fluoride ion(-1)**	1.33E-05	**Fluoride ion(-1)**	1.21E-02	**Fluoride ion(-1)**	2.89E-02	**Fluoride ion(-1)**	4.80E-05
9.26E-10	**Magnesium ion(+2)**	3.00E-02	**Magnesium ion(+2)**	2.02E-09	**Magnesium ion(+2)**	9.71E-10	**Magnesium ion(+2)**	3.69E-11
7.95E-10	Magnesium monofluoride ion(+1)	7.06E-06	Magnesium monofluoride ion(+1)	1.27E-09	Magnesium monofluoride ion(+1)	1.28E-09	Magnesium monofluoride ion(+1)	1.47E-07
2.58E-10	Magnesium sulfate	7.41E-06	Magnesium sulfate	1.03E-09	Magnesium sulfate	8.93E-11	Magnesium sulfate	8.01E-09
3.12E+00	**Nitrate ion(-1)**	2.30E-02	**Nitrate ion(-1)**	1.65E+00	**Nitrate ion(-1)**	4.25E-01	**Nitrate ion(-1)**	3.66E-30
	Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride	
	Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**	
2.12E-03	**Silicon dioxide (amorphous)**	1.84E-03	**Silicon dioxide (amorphous)**	2.06E-03	**Silicon dioxide (amorphous)**	1.86E-03	**Silicon dioxide (amorphous)**	3.30E-05
5.57E-01	Sodium bromide	1.14E-01	Sodium bromide	1.13E+00	Sodium bromide	4.36E-01	Sodium bromide	3.47E-03
6.16E-02	Sodium carbonate ion(-1)	5.34E-10	Sodium carbonate ion(-1)	1.87E-02	Sodium carbonate ion(-1)	1.21E-01	Sodium carbonate ion(-1)	5.71E-09
2.42E-02	Sodium fluoride	1.13E-06	Sodium fluoride	1.42E-02	Sodium fluoride	2.83E-02	Sodium fluoride	5.88E-10
2.94E+00	Sodium hydrogen metasilicate	9.19E-05	Sodium hydrogen metasilicate	1.90E+00	Sodium hydrogen metasilicate	2.45E+00	Sodium hydrogen metasilicate	6.22E-08
9.87E+00	**Sodium ion(+1)**	2.07E+00	**Sodium ion(+1)**	9.24E+00	**Sodium ion(+1)**	9.72E+00	**Sodium ion(+1)**	1.57E+01
7.36E-01	**Sodium nitrate**	2.38E-02	**Sodium nitrate**	6.42E-01	**Sodium nitrate**	3.72E-01	**Sodium nitrate**	2.94E-03
9.74E-20	Sodium sulfate ion(-1)	2.80E-42	Sodium sulfate ion(-1)	6.36E-18	Sodium sulfate ion(-1)	3.07E-31	Sodium sulfate ion(-1)	7.40E-121
1.26E-04	**Sulfate ion(-2)**	2.94E-04	**Sulfate ion(-2)**	1.69E-03	**Sulfate ion(-2)**	1.53E-02	**Sulfate ion(-2)**	5.73E-01
2.14E-01	Trihydrogen silicate ion(-1)	1.58E-05	Trihydrogen silicate ion(-1)	1.26E-01	Trihydrogen silicate ion(-1)	1.90E-01	Trihydrogen silicate ion(-1)	5.99E-05

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu UZ-14/1825.8	Aqueous	Aqu UZ-14/2014.7	Aqueous	Aqu UZ-14/85.2-85.6	Aqueous	Aqu UZ/14C	Aqueous
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**10.4873**	**pH**	**10.3173**	**pH**	**7.29724**	**pH**	**8.25454**
Ionic Strength	0.132465	Ionic Strength	0.123477	Ionic Strength	0.149267	Ionic Strength	0.133915
Osmotic Pressure	855.519	Osmotic Pressure	862.859	Osmotic Pressure	813.729	Osmotic Pressure	858.386
Initial Cl-	23.5	Initial Cl-	32.1	Initial Cl-	60	Initial Cl-	15.5
Initial NO3-	11.8	Initial NO3-	1.8	Initial NO3-	22	Initial NO3-	0
Final Cl-/NO3- ratio	1.61E+00	Final Cl-/NO3- ratio	6.64E+00	Final Cl-/NO3- ratio	1.44E+00	Final Cl-/NO3- ratio	
Concentration factor	17055.926	Concentration factor	34072.383	Concentration factor	22696.356	Concentration factor	43675.104

Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg	Species	Aqueous Aqueous	Species	Aqueous mol/kg H2O
Bicarbonate ion(-1)	0.005943393	**Bicarbonate ion(-1)**	6.29E-03	**Bicarbonate ion(-1)**	2.03E-06	**Bicarbonate ion(-1)**	1.51E-05
Bisulfate(VI) ion (-1)	1.67872E-11	Bisulfate(VI) ion (-1)	1.85E-11	Bisulfate(VI) ion (-1)	1.31E-09	Bisulfate(VI) ion (-1)	8.88E-09
Bromide ion (-1)	2.169923149	**Bromide ion (-1)**	4.24E+00	**Bromide ion (-1)**	3.00E+00	**Bromide ion (-1)**	5.58E+00
Calcium ion(+2)	2.61902E-08	**Calcium ion(+2)**	1.20E-08	**Calcium ion(+2)**	3.93E-02	**Calcium ion(+2)**	2.86E-04
Calcium monochloride ion(+1)	6.67944E-08	Calcium monochloride ion(+1)	7.50E-08	Calcium monochloride ion(+1)	8.38E-02	Calcium monochloride ion(+1)	2.52E-03
Calcium monofluoride ion(+1)	3.00519E-08	Calcium monofluoride ion(+1)	3.55E-08	Calcium monofluoride ion(+1)	8.48E-05	Calcium monofluoride ion(+1)	1.14E-05
Calcium mononitrate ion(+1)	5.49341E-07	**Calcium mononitrate ion(+1)**	2.19E-07	**Calcium mononitrate ion(+1)**	3.48E+00	**Calcium mononitrate ion(+1)**	1.80E-04
Calcium sulfate	9.74125E-10	Calcium sulfate	9.56E-10	Calcium sulfate	2.15E-04	Calcium sulfate	4.15E-08
Carbon dioxide	9.46111E-08	Carbon dioxide	1.38E-07	Carbon dioxide	8.32E-08	Carbon dioxide	5.03E-06
Carbonate ion(-2)	0.423940395	**Carbonate ion(-2)**	2.83E-01	**Carbonate ion(-2)**	1.35E-07	**Carbonate ion(-2)**	4.14E+00
Chloride ion(-1)	4.121206381	**Chloride ion(-1)**	3.66E+00	**Chloride ion(-1)**	5.35E+00	**Chloride ion(-1)**	2.64E-51
Dihydrogen hexafluorosilicate	2.21596E-51	Dihydrogen hexafluorosilicate	7.84E-51	Dihydrogen hexafluorosilicate	1.19E-50	Dihydrogen hexafluorosilicate	7.51E-07
Dihydrogen orthosilicate ion(-2)	0.018888585	Dihydrogen orthosilicate ion(-2)	8.34E-03	Dihydrogen orthosilicate ion(-2)	9.93E-09	Dihydrogen orthosilicate ion(-2)	1.15E-03
Disodium fluoride ion(+1)	0.132380935	Disodium fluoride ion(+1)	1.56E-01	Disodium fluoride ion(+1)	1.03E-04	Disodium fluoride ion(+1)	1.85E-04
Fluoride ion(-1)	0.036382508	**Fluoride ion(-1)**	3.09E-02	**Fluoride ion(-1)**	3.58E-05	**Fluoride ion(-1)**	4.53E-06
Magnesium ion(+2)	6.10778E-10	**Magnesium ion(+2)**	8.78E-10	**Magnesium ion(+2)**	2.91E-04	**Magnesium ion(+2)**	1.23E-07
Magnesium monofluoride ion(+1)	6.92863E-10	Magnesium monofluoride ion(+1)	1.25E-09	Magnesium monofluoride ion(+1)	1.42E-06	Magnesium monofluoride ion(+1)	6.52E-06
Magnesium sulfate	7.53345E-11	*Magnesium sulfate*	1.13E-10	*Magnesium sulfate*	1.21E-05	Magnesium sulfate	2.43E-10
Nitrate ion(-1)	2.562823464	**Nitrate ion(-1)**	5.51E-01	**Nitrate ion(-1)**	3.72E+00	**Nitrate ion(-1)**	
Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride	2.41E+00
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**	7.56E-02
Silicon dioxide (amorphous)	0.001899774	**Silicon dioxide (amorphous)**	1.81E-03	**Silicon dioxide (amorphous)**	2.30E-03	**Silicon dioxide (amorphous)**	1.41E-73
Sodium bromide	0.604987346	Sodium bromide	1.30E+00	Sodium bromide	6.88E-01	Sodium bromide	2.97E-06
Sodium carbonate ion(-1)	0.154618111	Sodium carbonate ion(-1)	1.28E-01	Sodium carbonate ion(-1)	4.58E-08	Sodium carbonate ion(-1)	0.00E+00
Sodium fluoride	0.035140154	Sodium fluoride	3.45E-02	Sodium fluoride	3.13E-05	Sodium fluoride	2.42E-02
Sodium hydrogen metasilicate	3.692522733	Sodium hydrogen metasilicate	2.93E+00	Sodium hydrogen metasilicate	2.54E-03	Sodium hydrogen metasilicate	7.75E+00
Sodium ion(+1)	10.09207679	**Sodium ion(+1)**	9.27E+00	**Sodium ion(+1)**	8.43E+00	**Sodium ion(+1)**	0.00E+00
Sodium nitrate	0.683030147	**Sodium nitrate**	4.38E-01	**Sodium nitrate**	8.48E-01		
Sodium sulfate ion(-1)	1.16176E-19	Sodium sulfate ion(-1)	1.34E-17	Sodium sulfate ion(-1)	3.42E-25	Sodium sulfate ion(-1)	1.83E-01
Sulfate ion(-2)	0.00034264	**Sulfate ion(-2)**	8.39E-03	**Sulfate ion(-2)**	4.58E-06	**Sulfate ion(-2)**	4.57E-31
Trihydrogen silicate ion(-1)	0.285268893	Trihydrogen silicate ion(-1)	2.05E-01	Trihydrogen silicate ion(-1)	2.30E-04	Trihydrogen silicate ion(-1)	2.18E-03

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu UZ-16/1343.7	Aqueous	Aqu UZ-16/1643.4	Aqueous	Aqu WT-24/1937.0	Aqueous
Brine Type		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**10.7255**	**pH**	**6.43144**	**pH**	**10.5459**
Ionic Strength	0.124953	Ionic Strength	0.171836	Ionic Strength	0.129609
Osmotic Pressure	863.669	Osmotic Pressure	871.188	Osmotic Pressure	887.016
Initial Cl-	56	Initial Cl-	70	Initial Cl-	35.8
Initial NO3-	18	Initial NO3-	8	Initial NO3-	0.5
Final Cl-/NO3- ratio	2.41E+00	Final Cl-/NO3- ratio	3.28E+02	Final Cl-/NO3- ratio	4.29E+02
Concentration factor	8866.002	Concentration factor	12067.822	Concentration factor	7346.098

Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O
Bicarbonate ion(-1)	3.48E-03	**Bicarbonate ion(-1)**	7.66E-08	**Bicarbonate ion(-1)**	2.30E-03
Bisulfate(VI) ion (-1)	1.20E-11	Bisulfate(VI) ion (-1)	1.52E-10	Bisulfate(VI) ion (-1)	1.36E-11
Bromide ion (-1)	1.15E+00	**Bromide ion (-1)**	1.65E+00	**Bromide ion (-1)**	9.83E-01
Calcium ion(+2)	3.52E-08	**Calcium ion(+2)**	2.54E+00	**Calcium ion(+2)**	2.98E-08
Calcium monochloride ion(+1)	4.74E-08	Calcium monochloride ion(+1)	6.66E-01	Calcium monochloride ion(+1)	3.90E-08
Calcium monofluoride ion(+1)	2.75E-08	Calcium monofluoride ion(+1)	5.02E-04	Calcium monofluoride ion(+1)	1.32E-07
Calcium mononitrate ion(+1)	3.84E-07	**Calcium mononitrate ion(+1)**	1.50E+00	**Calcium mononitrate ion(+1)**	5.90E-09
Calcium sulfate	1.01E-09	Calcium sulfate	1.46E-04	Calcium sulfate	8.21E-10
Carbon dioxide	4.00E-08	Carbon dioxide	1.07E-07	Carbon dioxide	6.48E-08
Carbonate ion(-2)	4.85E-01	**Carbonate ion(-2)**	1.84E-09	**Carbonate ion(-2)**	3.14E-01
Chloride ion(-1)	4.70E+00	**Chloride ion(-1)**	8.34E+00	**Chloride ion(-1)**	7.38E+00
Dihydrogen hexafluorosilicate	1.39E-52	Dihydrogen hexafluorosilicate	3.03E-50	Dihydrogen hexafluorosilicate	3.47E-48
Dihydrogen orthosilicate ion(-2)	5.62E-02	Dihydrogen orthosilicate ion(-2)	8.04E-11	Dihydrogen orthosilicate ion(-2)	3.63E-02
Disodium fluoride ion(+1)	1.21E-01	Disodium fluoride ion(+1)	2.21E-06	Disodium fluoride ion(+1)	5.87E-01
Fluoride ion(-1)	4.01E-02	**Fluoride ion(-1)**	1.05E-05	**Fluoride ion(-1)**	1.33E-01
Magnesium ion(+2)	3.39E-10	**Magnesium ion(+2)**	4.52E-02	**Magnesium ion(+2)**	4.01E-10
Magnesium monofluoride ion(+1)	2.49E-10	Magnesium monofluoride ion(+1)	1.30E-05	Magnesium monofluoride ion(+1)	2.03E-09
Magnesium sulfate	3.07E-11	Magnesium sulfate	1.28E-05	Magnesium sulfate	4.18E-11
Nitrate ion(-1)	1.95E+00	**Nitrate ion(-1)**	2.54E-02	**Nitrate ion(-1)**	1.72E-02
Potassium chloride		Potassium chloride		Potassium chloride	3.87E-02
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**	1.21E+00
Silicon dioxide (amorphous)	2.05E-03	**Silicon dioxide (amorphous)**	1.91E-03	**Silicon dioxide (amorphous)**	2.65E-03
Sodium bromide	2.92E-01	Sodium bromide	3.11E-01	Sodium bromide	2.13E-01
Sodium carbonate ion(-1)	1.65E-01	Sodium carbonate ion(-1)	4.71E-10	Sodium carbonate ion(-1)	1.39E-01
Sodium fluoride	3.65E-02	Sodium fluoride	1.29E-06	Sodium fluoride	1.22E-01
Sodium hydrogen metasilicate	6.13E+00	Sodium hydrogen metasilicate	8.35E-05	Sodium hydrogen metasilicate	4.99E+00
Sodium ion(+1)	9.49E+00	**Sodium ion(+1)**	2.68E+00	**Sodium ion(+1)**	8.23E+00
Sodium nitrate	6.24E-01	**Sodium nitrate**	3.37E-02	**Sodium nitrate**	4.20E-02
Sodium sulfate ion(-1)	7.32E-22	Sodium sulfate ion(-1)	4.26E-39	Sodium sulfate ion(-1)	8.04E-33
Sulfate ion(-2)	9.56E-04	**Sulfate ion(-2)**	1.72E-04	**Sulfate ion(-2)**	6.35E-02
Trihydrogen silicate ion(-1)	5.19E-01	Trihydrogen silicate ion(-1)	1.36E-05	Trihydrogen silicate ion(-1)	5.25E-01

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu NRG-6/ 158.2	Aqueous	Aqu NRG-6/160.8	Aqueous	Aqu NRG-6/171.0	Aqueous	Aqu NRG-6/175.6	Aqueous
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**5.6516**	**pH**	**5.88506**	**pH**	**7.58667**	**pH**	**8.42391**
Ionic Strength	0.385384	Ionic Strength	0.182357	Ionic Strength	0.309646	Ionic Strength	0.405772
Osmotic Pressure	907.523	Osmotic Pressure	878.649	Osmotic Pressure	958.778	Osmotic Pressure	1164.22
Initial Cl-	185	Initial Cl-	148	Initial Cl-	58	Initial Cl-	47
Initial NO3-	32	Initial NO3-	35	Initial NO3-	43	Initial NO3-	42
Final Cl-/NO3- ratio	1.50E+38	Final Cl-/NO3- ratio	2.87E+02	Final Cl-/NO3- ratio	5.49E+00	Final Cl-/NO3- ratio	1.04E+35
Concentration factor	5133.73534	Concentration factor	3052.188	Concentration factor	74715.986	Concentration factor	156397.570

Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2C	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O
Calcium ion(+2)	8.08E+00	**Calcium ion(+2)**	2.47E+00	**Calcium ion(+2)**	5.22E-08	**Calcium ion(+2)**	8.80E+00
Magnesium ion(+2)	7.88E-01	**Magnesium ion(+2)**	7.06E-01	**Magnesium ion(+2)**	2.86E-10	**Magnesium ion(+2)**	7.22E-12
Sodium ion(+1)	1.43E-01	**Sodium ion(+1)**	1.72E+00	**Sodium ion(+1)**	3.14E-01	**Sodium ion(+1)**	1.54E+01
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**	
Chloride ion(-1)	1.38E+01	**Chloride ion(-1)**	9.59E+00	**Chloride ion(-1)**	2.87E+01	**Chloride ion(-1)**	4.24E+01
Nitrate ion(-1)	9.20E-38	**Nitrate ion(-1)**	3.34E-02	**Nitrate ion(-1)**	5.21E+00	**Nitrate ion(-1)**	4.09E-34
Sulfate ion(-2)	3.12E+00	**Sulfate ion(-2)**	2.18E-04			**Sulfate ion(-2)**	6.11E-01
Fluoride ion(-1)	8.18E-06	**Fluoride ion(-1)**	8.25E-06	**Fluoride ion(-1)**	9.41E-05	**Fluoride ion(-1)**	6.08E-05
Bromide ion (-1)	8.19E-01	**Bromide ion (-1)**	4.31E-01	**Bromide ion (-1)**	1.21E+01	**Bromide ion (-1)**	5.74E+00
Bicarbonate ion(-1)	3.39E-10	**Bicarbonate ion(-1)**	4.69E-09	**Bicarbonate ion(-1)**	2.22E-08	**Bicarbonate ion(-1)**	4.35E-09
Carbonate ion(-2)	1.04E-11	**Carbonate ion(-2)**	4.89E-11	**Carbonate ion(-2)**	4.74E-07	**Carbonate ion(-2)**	7.85E-06
Calcium mononitrate ion(+1)	2.65E+00	**Calcium mononitrate ion(+1)**	1.65E+00	**Calcium mononitrate ion(+1)**	**4.57E+01**	**Calcium mononitrate ion(+1)**	1.64E+01
Sodium nitrate	6.12E-05	**Sodium nitrate**	3.54E-02	**Sodium nitrate**	9.46E-01	**Sodium nitrate**	7.40E-03
Silicon dioxide (amorphous)	7.32E-04	**Silicon dioxide (amorphous)**	1.75E-03	**Silicon dioxide (amorphous)**	1.41E-03	**Silicon dioxide (amorphous)**	3.54E-05
Trihydrogen silicate ion(-1)	3.87E-07	Trihydrogen silicate ion(-1)	3.16E-06	Trihydrogen silicate ion(-1)	1.34E-03	Trihydrogen silicate ion(-1)	1.03E-04
Dihydrogen orthosilicate ion(-2)	1.15E-12	Dihydrogen orthosilicate ion(-2)	5.55E-12	Dihydrogen orthosilicate ion(-2)	1.16E-07	Dihydrogen orthosilicate ion(-2)	3.35E-07
Calcium monochloride ion(+1)	3.52E-01	Calcium monochloride ion(+1)	3.24E-01	Calcium monochloride ion(+1)	3.14E-05	Calcium monochloride ion(+1)	1.95E-11
Calcium monofluoride ion(+1)	6.73E-05	Calcium monofluoride ion(+1)	2.07E-04	Calcium monofluoride ion(+1)	6.79E-05	Calcium monofluoride ion(+1)	1.02E-05
Sodium fluoride	3.98E-09	Sodium fluoride	5.08E-07	Sodium fluoride	3.23E-06	Sodium fluoride	8.79E-10
Disodium fluoride ion(+1)	6.66E-09	Disodium fluoride ion(+1)	7.15E-07	Disodium fluoride ion(+1)	5.32E-05	Disodium fluoride ion(+1)	8.79E-09
Calcium sulfate	1.37E-05	Calcium sulfate	1.23E-04	Calcium sulfate	2.75E-05	Calcium sulfate	2.25E-07
Magnesium sulfate	1.43E-04	Magnesium sulfate	2.22E-04	Magnesium sulfate	8.30E-07	Magnesium sulfate	6.63E-09
Sodium sulfate ion(-1)	1.09E-61	Sodium sulfate ion(-1)	4.64E-44	Sodium sulfate ion(-1)	7.62E-128	Sodium sulfate ion(-1)	1.24E-126
Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride	
Sodium bromide	1.66E-02	Sodium bromide	6.52E-02	Sodium bromide	5.99E-02	Sodium bromide	3.21E-03
Sodium carbonate ion(-1)	2.64E-13	Sodium carbonate ion(-1)	9.44E-12	Sodium carbonate ion(-1)	6.00E-08	Sodium carbonate ion(-1)	1.37E-08
Sodium hydrogen metasilicate	1.08E-07	Sodium hydrogen metasilicate	1.37E-05	Sodium hydrogen metasilicate	3.57E-04	Sodium hydrogen metasilicate	9.83E-08

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu NRG-6/219.9	Aqueous	Aqu NRG-6/244.6	Aqueous	Aqu NRG-6/255.9	Aqueous	Aq NRG-7a/460.25	Aqueous
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**10.183**	**pH**	**8.45521**	**pH**	**6.19575**	**pH**	**10.7269**
Ionic Strength	0.133929	Ionic Strength	0.142499	Ionic Strength	0.14159	Ionic Strength	0.138297
Osmotic Pressure	838.681	Osmotic Pressure	831.262	Osmotic Pressure	827.778	Osmotic Pressure	859.338
Initial Cl-	77	Initial Cl-	49	Initial Cl-	115	Initial Cl-	7
Initial NO3-	47	Initial NO3-	40	Initial NO3-	35	Initial NO3-	1
Final Cl-/NO3- ratio	8.75E-01	Final Cl-/NO3- ratio	6.72E-01	Final Cl-/NO3- ratio	7.10E-01	Final Cl-/NO3- ratio	2.30E+01
Concentration factor	7693.822	Concentration factor	10670.204	Concentration factor	11558..027	Concentration factor	26829.198

Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg	Species	Aqueous mol/kg H2O
Calcium ion(+2)	4.42E-07	**Calcium ion(+2)**	1.66E-03	**Calcium ion(+2)**	1.55E-03	**Calcium ion(+2)**	8.06E-09
Magnesium ion(+2)	1.84E-09	**Magnesium ion(+2)**	3.73E-06	**Magnesium ion(+2)**	1.36E-01	**Magnesium ion(+2)**	
Sodium ion(+1)	1.06E+01	**Sodium ion(+1)**	1.13E+01	**Sodium ion(+1)**	1.07E+01	**Sodium ion(+1)**	6.07E+00
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**	4.53E+00
Chloride ion(-1)	4.38E+00	**Chloride ion(-1)**	4.03E+00	**Chloride ion(-1)**	4.00E+00	**Chloride ion(-1)**	5.19E+00
Nitrate ion(-1)	5.01E+00	**Nitrate ion(-1)**	5.99E+00	**Nitrate ion(-1)**	5.64E+00	**Nitrate ion(-1)**	2.26E-01
Sulfate ion(-2)	1.13E-05	**Sulfate ion(-2)**	8.84E-06	**Sulfate ion(-2)**	1.32E-05	**Sulfate ion(-2)**	2.97E-02
Fluoride ion(-1)	1.84E-02	**Fluoride ion(-1)**	2.76E-04	**Fluoride ion(-1)**	7.22E-06	**Fluoride ion(-1)**	4.75E-02
Bromide ion (-1)	9.56E-01	**Bromide ion (-1)**	1.30E+00	**Bromide ion (-1)**	1.41E+00	**Bromide ion (-1)**	3.70E+00
Bicarbonate ion(-1)	1.38E-03	**Bicarbonate ion(-1)**	1.93E-05	**Bicarbonate ion(-1)**	1.38E-07	**Bicarbonate ion(-1)**	3.52E-03
Carbonate ion(-2)	4.98E-02	**Carbonate ion(-2)**	1.19E-05	**Carbonate ion(-2)**	4.91E-10	**Carbonate ion(-2)**	3.52E-01
Calcium mononitrate ion(+1)	6.83E-06	**Calcium mononitrate ion(+1)**	3.16E-02	**Calcium mononitrate ion(+1)**	3.12E-02	**Calcium mononitrate ion(+1)**	3.48E-08
Sodium nitrate	8.24E-01	**Sodium nitrate**	8.61E-01	**Sodium nitrate**	8.56E-01	**Sodium nitrate**	2.07E-01
Silicon dioxide (amorphous)	2.26E-03	**Silicon dioxide (amorphous)**	2.16E-03	**Silicon dioxide (amorphous)**	2.14E-03	**Silicon dioxide (amorphous)**	1.29E-03
Trihydrogen silicate ion(-1)	1.34E-01	Trihydrogen silicate ion(-1)	2.37E-03	Trihydrogen silicate ion(-1)	1.27E-05	Trihydrogen silicate ion(-1)	5.26E-01
Dihydrogen orthosilicate ion(-2)	4.49E-03	Dihydrogen orthosilicate ion(-2)	1.59E-06	Dihydrogen orthosilicate ion(-2)	4.61E-11	Dihydrogen orthosilicate ion(-2)	5.25E-02
Calcium monochloride ion(+1)	7.10E-07	Calcium monochloride ion(+1)	3.69E-03	Calcium monochloride ion(+1)	3.06E-03	Calcium monochloride ion(+1)	1.97E-08
Calcium monofluoride ion(+1)	1.34E-07	Calcium monofluoride ion(+1)	8.86E-06	Calcium monofluoride ion(+1)	2.07E-07	Calcium monofluoride ion(+1)	3.93E-08
Sodium fluoride	1.90E-02	Sodium fluoride	2.93E-04	Sodium fluoride	7.02E-06	Sodium fluoride	5.17E-02
Disodium fluoride ion(+1)	5.47E-02	Disodium fluoride ion(+1)	8.89E-04	Disodium fluoride ion(+1)	2.07E-05	Disodium fluoride ion(+1)	1.73E-01
Calcium sulfate	2.63E-08	Calcium sulfate	2.20E-04	Calcium sulfate	2.19E-04	Calcium sulfate	6.18E-10
Magnesium sulfate	9.71E-10	Magnesium sulfate	5.39E-06	Magnesium sulfate	1.89E-01	Magnesium sulfate	
Sodium sulfate ion(-1)	8.13E-20	Sodium sulfate ion(-1)	5.50E-18	Sodium sulfate ion(-1)	7.73E-18	Sodium sulfate ion(-1)	5.28E-24
Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride	1.04E-01
Sodium bromide	2.95E-01	Sodium bromide	4.31E-01	Sodium bromide	4.70E-01	Sodium bromide	6.60E-01
Sodium carbonate ion(-1)	1.62E-02	Sodium carbonate ion(-1)	3.93E-06	Sodium carbonate ion(-1)	1.63E-10	Sodium carbonate ion(-1)	1.79E-01
Sodium hydrogen metasilicate	1.90E+00	Sodium hydrogen metasilicate	3.59E-02	Sodium hydrogen metasilicate	1.90E-04	Sodium hydrogen metasilicate	3.44E+00

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aq SD-12/495.5	Aqueous	Aqu SD-12/296.1	Aqueous	Aqu SD-6/1509.9	Aqueous	Aqu SD-6/412.2	Aqueous
		Brine Type		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**10.7507**	**pH**	**10.7507**	**pH**	**10.5203**	**pH**	**8.03638**
Ionic Strength	0.118618	Ionic Strength	0.118618	Ionic Strength	0.138059	Ionic Strength	0.148967
Osmotic Pressure	869.369	Osmotic Pressure	869.369	Osmotic Pressure	862.668	Osmotic Pressure	828.717
Initial Cl-	57	Initial Cl-	60	Initial Cl-	98.7	Initial Cl-	47.2
Initial NO3-	8.1	Initial NO3-	18	Initial NO3-	1.8	Initial NO3-	78.2
Final Cl-/NO3- ratio	4.68E+00	Final Cl-/NO3- ratio	3.83E+39	Final Cl-/NO3- ratio	1.89E+01	Final Cl-/NO3- ratio	6.74E-01
Concentration factor	11707.511	Concentration factor	17731.409	Concentration factor	20068.766	Concentration factor	6078.585

Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O
Calcium ion(+2)	2.97E-08	**Calcium ion(+2)**	8.18E+00	**Calcium ion(+2)**	1.20E-08	**Calcium ion(+2)**	7.51E-03
Magnesium ion(+2)	3.11E-10	**Magnesium ion(+2)**	4.08E-03	**Magnesium ion(+2)**	2.45E-10	**Magnesium ion(+2)**	2.23E-05
Sodium ion(+1)	8.96E+00	**Sodium ion(+1)**	1.76E-01	**Sodium ion(+1)**	6.52E+00	**Sodium ion(+1)**	1.09E+01
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**	4.12E+00	**Potassium ion(+1)**	9.87E-01
Chloride ion(-1)	4.75E+00	**Chloride ion(-1)**	1.34E+01	**Chloride ion(-1)**	6.15E+00	**Chloride ion(-1)**	4.52E+00
Nitrate ion(-1)	1.02E+00	**Nitrate ion(-1)**	3.50E-39	**Nitrate ion(-1)**	3.26E-01	**Nitrate ion(-1)**	6.71E+00
Sulfate ion(-2)	4.75E-03	**Sulfate ion(-2)**	3.05E+00	**Sulfate ion(-2)**	3.64E-02	**Sulfate ion(-2)**	1.53E-06
Fluoride ion(-1)	3.94E-02	**Fluoride ion(-1)**	2.32E-05	**Fluoride ion(-1)**	3.04E-02	**Fluoride ion(-1)**	1.40E-04
Bromide ion (-1)	1.52E+00	**Bromide ion (-1)**	2.82E+00	**Bromide ion (-1)**	2.76E+00	**Bromide ion (-1)**	7.61E-01
Bicarbonate ion(-1)	2.94E-03	**Bicarbonate ion(-1)**	1.22E-08	**Bicarbonate ion(-1)**	4.37E-03	**Bicarbonate ion(-1)**	1.38E-05
Carbonate ion(-2)	4.44E-01	**Carbonate ion(-2)**	2.77E-09	**Carbonate ion(-2)**	3.34E-01	**Carbonate ion(-2)**	3.23E-06
Calcium mononitrate ion(+1)	2.40E-07	**Calcium mononitrate ion(+1)**	5.15E+00	**Calcium mononitrate ion(+1)**	5.69E-08	**Calcium mononitrate ion(+1)**	1.04E-01
Sodium nitrate	5.14E-01	**Sodium nitrate**	9.48E-05	**Sodium nitrate**	2.57E-01	**Sodium nitrate**	8.53E-01
Silicon dioxide (amorphous)	2.09E-03	**Silicon dioxide (amorphous)**	8.28E-04	**Silicon dioxide (amorphous)**	2.02E-03	**Silicon dioxide (amorphous)**	2.23E-03
Trihydrogen silicate ion(-1)	5.73E-01	Trihydrogen silicate ion(-1)	4.76E-06	Trihydrogen silicate ion(-1)	4.77E-01	Trihydrogen silicate ion(-1)	9.69E-04
Dihydrogen orthosilicate ion(-2)	6.21E-02	Dihydrogen orthosilicate ion(-2)	1.17E-10	Dihydrogen orthosilicate ion(-2)	3.01E-02	Dihydrogen orthosilicate ion(-2)	2.54E-07
Calcium monochloride ion(+1)	4.29E-08	Calcium monochloride ion(+1)	6.19E-01	Calcium monochloride ion(+1)	2.35E-08	Calcium monochloride ion(+1)	1.15E-02
Calcium monofluoride ion(+1)	2.82E-08	Calcium monofluoride ion(+1)	4.57E-04	Calcium monofluoride ion(+1)	2.71E-08	Calcium monofluoride ion(+1)	1.64E-05
Sodium fluoride	3.70E-02	Sodium fluoride	2.00E-08	Sodium fluoride	3.22E-02	Sodium fluoride	1.47E-04
Disodium fluoride ion(+1)	1.24E-01	Disodium fluoride ion(+1)	3.88E-08	Disodium fluoride ion(+1)	1.19E-01	Disodium fluoride ion(+1)	4.17E-04
Calcium sulfate	1.03E-09	Calcium sulfate	1.63E-05	Calcium sulfate	8.94E-10	Calcium sulfate	2.20E-04
Magnesium sulfate	2.60E-11	Magnesium sulfate	9.47E-07	Magnesium sulfate	7.38E-11	Magnesium sulfate	1.10E-05
Sodium sulfate ion(-1)	6.32E-22	Sodium sulfate ion(-1)	4.35E-60	Sodium sulfate ion(-1)	1.01E-27	Sodium sulfate ion(-1)	1.80E-20
Potassium chloride		Potassium chloride		Potassium chloride	1.06E-01	Potassium chloride	1.57E-02
Sodium bromide	3.85E-01	Sodium bromide	6.02E-02	Sodium bromide	5.07E-01	Sodium bromide	2.28E-01
Sodium carbonate ion(-1)	1.59E-01	Sodium carbonate ion(-1)	8.82E-11	Sodium carbonate ion(-1)	1.72E-01	Sodium carbonate ion(-1)	1.08E-06
Sodium hydrogen metasilicate	6.78E+00	Sodium hydrogen metasilicate	1.60E-06	Sodium hydrogen metasilicate	3.28E+00	Sodium hydrogen metasilicate	1.27E-02

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu SD-6/443.5	Aqueous	Aqu SD-6/471.3	Aqueous	Aqu SD-6/507.5	Aqueous	Aqu SD-6/522.5	Aqueous
Brine Type		**Brine Type**		**Brine Type**			
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**8.34789**	**pH**	**7.31338**	**pH**	**6.19305**	**pH**	**9.74138**
Ionic Strength	0.14838	Ionic Strength	0.172936	Ionic Strength	0.141457	Ionic Strength	0.142221
Osmotic Pressure	828.911	Osmotic Pressure	795.567	Osmotic Pressure	828.708	Osmotic Pressure	834.112
Initial Cl-	47.3	Initial Cl-	66.8	Initial Cl-	20.3	Initial Cl-	26.3
Initial NO3-	86	Initial NO3-	67.3	Initial NO3-	25.7	Initial NO3-	34.5
Final Cl-/NO3- ratio	6.20E-01	Final Cl-/NO3- ratio	1.98E+00	Final Cl-/NO3- ratio	8.52E-01	Final Cl-/NO3- ratio	9.21E-01
Concentration factor	5642.594	Concentration factor	12037.804	Concentration factor	14134.06	Concentration factor	10680.901

Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O
Calcium ion(+2)	2.05E-03	**Calcium ion(+2)**	5.00E-02	**Calcium ion(+2)**	1.28E-03	**Calcium ion(+2)**	1.55E-06
Magnesium ion(+2)	5.77E-06	**Magnesium ion(+2)**	9.37E-05	**Magnesium ion(+2)**	1.19E-01	**Magnesium ion(+2)**	8.86E-09
Sodium ion(+1)	1.14E+01	**Sodium ion(+1)**	6.23E+00	**Sodium ion(+1)**	9.97E+00	**Sodium ion(+1)**	9.80E+00
Potassium ion(+1)	5.52E-01	**Potassium ion(+1)**	7.85E-01	**Potassium ion(+1)**	8.24E-01	**Potassium ion(+1)**	1.56E+00
Chloride ion(-1)	4.30E+00	**Chloride ion(-1)**	8.74E+00	**Chloride ion(-1)**	4.27E+00	**Chloride ion(-1)**	4.75E+00
Nitrate ion(-1)	6.93E+00	**Nitrate ion(-1)**	4.42E+00	**Nitrate ion(-1)**	5.01E+00	**Nitrate ion(-1)**	5.15E+00
Sulfate ion(-2)	4.00E-06	**Sulfate ion(-2)**	3.05E-07	**Sulfate ion(-2)**	3.81E-05	**Sulfate ion(-2)**	4.30E-05
Fluoride ion(-1)	2.81E-04	**Fluoride ion(-1)**	3.44E-05	**Fluoride ion(-1)**	6.75E-06	**Fluoride ion(-1)**	7.88E-03
Bromide ion (-1)	6.98E-01	**Bromide ion (-1)**	1.73E+00	**Bromide ion (-1)**	1.75E+00	**Bromide ion (-1)**	1.35E+00
Bicarbonate ion(-1)	2.75E-05	**Bicarbonate ion(-1)**	7.20E-07	**Bicarbonate ion(-1)**	1.96E-07	**Bicarbonate ion(-1)**	8.47E-04
Carbonate ion(-2)	1.31E-05	**Carbonate ion(-2)**	1.01E-07	**Carbonate ion(-2)**	6.75E-10	**Carbonate ion(-2)**	1.00E-02
Calcium mononitrate ion(+1)	2.78E-02	**Calcium mononitrate ion(+1)**	7.74E+00	**Calcium mononitrate ion(+1)**	2.82E-02	**Calcium mononitrate ion(+1)**	2.64E-05
Sodium nitrate	8.67E-01	**Sodium nitrate**	9.06E-01	**Sodium nitrate**	8.16E-01	**Sodium nitrate**	7.94E-01
Silicon dioxide (amorphous)	2.21E-03	**Silicon dioxide (amorphous)**	2.71E-03	**Silicon dioxide (amorphous)**	2.15E-03	**Silicon dioxide (amorphous)**	2.23E-03
Trihydrogen silicate ion(-1)	1.88E-03	Trihydrogen silicate ion(-1)	3.28E-04	Trihydrogen silicate ion(-1)	1.40E-05	Trihydrogen silicate ion(-1)	5.46E-02
Dihydrogen orthosilicate ion(-2)	1.03E-06	Dihydrogen orthosilicate ion(-2)	1.48E-08	Dihydrogen orthosilicate ion(-2)	4.86E-11	Dihydrogen orthosilicate ion(-2)	6.68E-04
Calcium monochloride ion(+1)	3.34E-03	Calcium monochloride ion(+1)	2.87E-02	Calcium monochloride ion(+1)	2.62E-03	Calcium monochloride ion(+1)	2.65E-06
Calcium monofluoride ion(+1)	8.36E-06	Calcium monofluoride ion(+1)	1.01E-04	Calcium monofluoride ion(+1)	2.08E-07	Calcium monofluoride ion(+1)	2.79E-07
Sodium fluoride	2.94E-04	Sodium fluoride	2.12E-05	Sodium fluoride	6.91E-06	Sodium fluoride	8.77E-03
Disodium fluoride ion(+1)	8.39E-04	Disodium fluoride ion(+1)	6.35E-05	Disodium fluoride ion(+1)	2.09E-05	Disodium fluoride ion(+1)	2.59E-02
Calcium sulfate	2.21E-04	Calcium sulfate	2.02E-04	Calcium sulfate	2.15E-04	Calcium sulfate	2.34E-07
Magnesium sulfate	1.01E-05	Magnesium sulfate	7.81E-06	Magnesium sulfate	1.86E-01	Magnesium sulfate	1.55E-08
Sodium sulfate ion(-1)	5.45E-19	Sodium sulfate ion(-1)	6.17E-39	Sodium sulfate ion(-1)	6.33E-19	Sodium sulfate ion(-1)	7.72E-21
Potassium chloride	8.48E-03	Potassium chloride	1.53E-02	Potassium chloride	1.51E-02	Potassium chloride	2.85E-02
Sodium bromide	2.20E-01	Sodium bromide	2.27E-01	Sodium bromide	5.45E-01	Sodium bromide	3.84E-01
Sodium carbonate ion(-1)	4.22E-06	Sodium carbonate ion(-1)	2.92E-08	Sodium carbonate ion(-1)	2.47E-10	Sodium carbonate ion(-1)	3.78E-03
Sodium hydrogen metasilicate	2.64E-02	Sodium hydrogen metasilicate	2.07E-03	Sodium hydrogen metasilicate	1.87E-04	Sodium hydrogen metasilicate	6.55E-01

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu SD-7/370.3	Aqueous	Aqu SD-9/114.1	Aqueous	Aqu SD-9/135.1	Aqueous	Aqu SD-9/176.2	Aqueous
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**6.86283**	**pH**	**5.60145**	**pH**	**5.81462**	**pH**	**8.15765**
Ionic Strength	0.175782	Ionic Strength	0.385566	Ionic Strength	0.176598	Ionic Strength	0.121733
Osmotic Pressure	894.287	Osmotic Pressure	895.161	Osmotic Pressure	883.699	Osmotic Pressure	849.147
Initial Cl-	133	Initial Cl-	138	Initial Cl-	144	Initial Cl-	64
Initial NO3-	0.6	Initial NO3-	10.9	Initial NO3-	12	Initial NO3-	1.9
Final Cl-/NO3- ratio	9.04E+03	Final Cl-/NO3- ratio	1.16E+40	Final Cl-/NO3- ratio	6.74E-01	Final Cl-/NO3- ratio	4.28E+00
Concentration factor	3319.043	Concentration factor	17804.664	Concentration factor	5310.652	Concentration factor	43039.8

Species	Aqueous mol/kg	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O
Calcium ion(+2)	3.28E+00	**Calcium ion(+2)**	8.11E+00	**Calcium ion(+2)**	1.85E+00	**Calcium ion(+2)**	3.84E-04
Magnesium ion(+2)	1.31E-02	**Magnesium ion(+2)**	6.76E-01	**Magnesium ion(+2)**	1.36E+00	**Magnesium ion(+2)**	1.05E-05
Sodium ion(+1)	2.11E+00	**Sodium ion(+1)**	1.41E-01	**Sodium ion(+1)**	1.70E+00	**Sodium ion(+1)**	9.27E+00
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**	
Chloride ion(-1)	8.67E+00	**Chloride ion(-1)**	1.23E+01	**Chloride ion(-1)**	8.59E+00	**Chloride ion(-1)**	3.33E+00
Nitrate ion(-1)	9.59E-04	**Nitrate ion(-1)**	1.07E-39	**Nitrate ion(-1)**	2.50E-02	**Nitrate ion(-1)**	7.78E-01
Sulfate ion(-2)	4.27E-04	**Sulfate ion(-2)**	3.14E+00	**Sulfate ion(-2)**	2.13E-04	**Sulfate ion(-2)**	1.54E-02
Fluoride ion(-1)	1.50E-05	**Fluoride ion(-1)**	7.20E-06	**Fluoride ion(-1)**	7.23E-06	**Fluoride ion(-1)**	2.04E-04
Bromide ion (-1)	4.39E-01	**Bromide ion (-1)**	2.83E+00	**Bromide ion (-1)**	7.49E-01	**Bromide ion (-1)**	5.15E+00
Bicarbonate ion(-1)	3.57E-08	**Bicarbonate ion(-1)**	3.76E-10	**Bicarbonate ion(-1)**	2.93E-09	**Bicarbonate ion(-1)**	1.88E-05
Carbonate ion(-2)	2.55E-09	**Carbonate ion(-2)**	7.73E-12	**Carbonate ion(-2)**	2.30E-11	**Carbonate ion(-2)**	5.42E-06
Calcium mononitrate ion(+1)	3.02E-02	**Calcium mononitrate ion(+1)**	3.13E+00	**Calcium mononitrate ion(+1)**	9.72E-01	**Calcium mononitrate ion(+1)**	1.57E-02
Sodium nitrate	9.98E-04	**Sodium nitrate**	6.16E-05	**Sodium nitrate**	3.08E-02	**Sodium nitrate**	5.25E-01
Silicon dioxide (amorphous)	1.81E-03	**Silicon dioxide (amorphous)**	7.02E-04	**Silicon dioxide (amorphous)**	1.65E-03	**Silicon dioxide (amorphous)**	1.87E-03
Trihydrogen silicate ion(-1)	2.56E-05	Trihydrogen silicate ion(-1)	3.66E-07	Trihydrogen silicate ion(-1)	2.55E-06	Trihydrogen silicate ion(-1)	1.39E-03
Dihydrogen orthosilicate ion(-2)	4.19E-10	Dihydrogen orthosilicate ion(-2)	9.61E-13	Dihydrogen orthosilicate ion(-2)	3.68E-12	Dihydrogen orthosilicate ion(-2)	3.82E-07
Calcium monochloride ion(+1)	3.70E-01	Calcium monochloride ion(+1)	5.90E-01	Calcium monochloride ion(+1)	2.82E-01	Calcium monochloride ion(+1)	4.02E-03
Calcium monofluoride ion(+1)	3.78E-04	Calcium monofluoride ion(+1)	8.15E-05	Calcium monofluoride ion(+1)	1.12E-04	Calcium monofluoride ion(+1)	1.22E-05
Sodium fluoride	1.27E-06	Sodium fluoride	4.20E-09	Sodium fluoride	4.01E-07	Sodium fluoride	2.65E-04
Disodium fluoride ion(+1)	1.89E-06	Disodium fluoride ion(+1)	7.49E-09	Disodium fluoride ion(+1)	5.13E-07	Disodium fluoride ion(+1)	1.22E-03
Calcium sulfate	1.35E-04	Calcium sulfate	1.44E-05	Calcium sulfate	1.24E-04	Calcium sulfate	1.99E-04
Magnesium sulfate	2.85E-06	Magnesium sulfate	1.40E-04	Magnesium sulfate	4.81E-04	Magnesium sulfate	9.64E-06
Sodium sulfate ion(-1)	3.00E-40	Sodium sulfate ion(-1)	1.29E-55	Sodium sulfate ion(-1)	7.57E-40	Sodium sulfate ion(-1)	1.76E-15
Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride	
Sodium bromide	1.01E-01	Sodium bromide	6.25E-02	Sodium bromide	1.15E-01	Sodium bromide	1.85E+00
Sodium carbonate ion(-1)	6.63E-10	Sodium carbonate ion(-1)	2.15E-13	Sodium carbonate ion(-1)	4.21E-12	Sodium carbonate ion(-1)	2.71E-06
Sodium hydrogen metasilicate	1.68E-04	Sodium hydrogen metasilicate	1.13E-07	Sodium hydrogen metasilicate	1.08E-05	Sodium hydrogen metasilicate	2.31E-02

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu SD-9/94.2	Aqueous	Aqu UZ-14/1258.5	Aqueous	Aqu UZ-14/1277.7	Aqueous	Aqu UZ-14/1409.4	Aqueous
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**5.84744**	**pH**	**10.3605**	**pH**	**6.59991**	**pH**	**10.1134**
Ionic Strength	0.176584	Ionic Strength	0.127419	Ionic Strength	0.178942	Ionic Strength	0.120201
Osmotic Pressure	893.436	Osmotic Pressure	848.225	Osmotic Pressure	882.973	Osmotic Pressure	849.625
Initial Cl-	170	Initial Cl-	88	Initial Cl-	130	Initial Cl-	75
Initial NO3-	11	Initial NO3-	16	Initial NO3-	15	Initial NO3-	5
Final Cl-/NO3- ratio	6.40E+02	Final Cl-/NO3- ratio	1.38E+00	Final Cl-/NO3- ratio	3.97E+02	Final Cl-/NO3- ratio	2.37E+00
Concentration factor	2474.843	Concentration factor	14932.143	Concentration factor	4292.63	Concentration factor	28410.578

Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O
Calcium ion(+2)	1.85E+00	**Calcium ion(+2)**	7.41E-08	**Calcium ion(+2)**	3.11E+00	**Calcium ion(+2)**	1.15E-07
Magnesium ion(+2)	1.55E+00	**Magnesium ion(+2)**	9.26E-10	**Magnesium ion(+2)**	3.00E-02	**Magnesium ion(+2)**	2.02E-09
Sodium ion(+1)	1.54E+00	**Sodium ion(+1)**	9.87E+00	**Sodium ion(+1)**	2.07E+00	**Sodium ion(+1)**	9.24E+00
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**	
Chloride ion(-1)	8.62E+00	**Chloride ion(-1)**	4.29E+00	**Chloride ion(-1)**	9.14E+00	**Chloride ion(-1)**	3.90E+00
Nitrate ion(-1)	1.35E-02	**Nitrate ion(-1)**	3.12E+00	**Nitrate ion(-1)**	2.30E-02	**Nitrate ion(-1)**	1.65E+00
Sulfate ion(-2)	2.77E-04	**Sulfate ion(-2)**	1.26E-04	**Sulfate ion(-2)**	2.94E-04	**Sulfate ion(-2)**	1.69E-03
Fluoride ion(-1)	8.05E-06	**Fluoride ion(-1)**	2.32E-02	**Fluoride ion(-1)**	1.33E-05	**Fluoride ion(-1)**	1.21E-02
Bromide ion (-1)	3.49E-01	**Bromide ion (-1)**	1.87E+00	**Bromide ion (-1)**	5.84E-01	**Bromide ion (-1)**	3.49E+00
Bicarbonate ion(-1)	2.85E-09	**Bicarbonate ion(-1)**	3.14E-03	**Bicarbonate ion(-1)**	5.05E-08	**Bicarbonate ion(-1)**	1.51E-03
Carbonate ion(-2)	2.50E-11	**Carbonate ion(-2)**	1.71E-01	**Carbonate ion(-2)**	2.21E-09	**Carbonate ion(-2)**	4.38E-02
Calcium mononitrate ion(+1)	4.10E-01	**Calcium mononitrate ion(+1)**	1.51E-06	**Calcium mononitrate ion(+1)**	9.92E-01	**Calcium mononitrate ion(+1)**	3.58E-06
Sodium nitrate	1.58E-02	**Sodium nitrate**	7.36E-01	**Sodium nitrate**	2.38E-02	**Sodium nitrate**	6.42E-01
Silicon dioxide (amorphous)	1.60E-03	**Silicon dioxide (amorphous)**	2.12E-03	**Silicon dioxide (amorphous)**	1.84E-03	**Silicon dioxide (amorphous)**	2.06E-03
Trihydrogen silicate ion(-1)	2.47E-06	Trihydrogen silicate ion(-1)	2.14E-01	Trihydrogen silicate ion(-1)	1.58E-05	Trihydrogen silicate ion(-1)	1.26E-01
Dihydrogen orthosilicate ion(-2)	3.84E-12	Dihydrogen orthosilicate ion(-2)	1.01E-02	Dihydrogen orthosilicate ion(-2)	1.43E-10	Dihydrogen orthosilicate ion(-2)	3.13E-03
Calcium monochloride ion(+1)	2.25E-01	Calcium monochloride ion(+1)	1.60E-07	Calcium monochloride ion(+1)	4.07E-01	Calcium monochloride ion(+1)	5.05E-07
Calcium monofluoride ion(+1)	9.01E-05	Calcium monofluoride ion(+1)	4.64E-08	Calcium monofluoride ion(+1)	4.28E-04	Calcium monofluoride ion(+1)	8.91E-08
Sodium fluoride	3.72E-07	Sodium fluoride	2.42E-02	Sodium fluoride	1.13E-06	Sodium fluoride	1.42E-02
Disodium fluoride ion(+1)	4.37E-07	Disodium fluoride ion(+1)	7.89E-02	Disodium fluoride ion(+1)	1.74E-06	Disodium fluoride ion(+1)	5.31E-02
Calcium sulfate	1.20E-04	Calcium sulfate	4.48E-09	Calcium sulfate	1.33E-04	Calcium sulfate	2.15E-08
Magnesium sulfate	5.37E-04	Magnesium sulfate	2.58E-10	Magnesium sulfate	7.41E-06	Magnesium sulfate	1.03E-09
Sodium sulfate ion(-1)	6.85E-40	Sodium sulfate ion(-1)	9.74E-20	Sodium sulfate ion(-1)	2.80E-42	Sodium sulfate ion(-1)	6.36E-18
Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride	
Sodium bromide	5.39E-02	Sodium bromide	5.57E-01	Sodium bromide	1.14E-01	Sodium bromide	1.13E+00
Sodium carbonate ion(-1)	4.34E-12	Sodium carbonate ion(-1)	6.16E-02	Sodium carbonate ion(-1)	5.34E-10	Sodium carbonate ion(-1)	1.87E-02
Sodium hydrogen metasilicate	1.00E-05	Sodium hydrogen metasilicate	2.94E+00	Sodium hydrogen metasilicate	9.19E-05	Sodium hydrogen metasilicate	1.90E+00

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu UZ-14/1542.3	Aqueous	Aqu UZ-14/178.1		Aqu UZ-14/1825.8	Aqueous	Aqu UZ-14/2014.7	Aqueous
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**10.3013**	**pH**	**8.22956**	**pH**	**10.4873**	**pH**	**10.3173**
Ionic Strength	0.129861	Ionic Strength	0.406305	Ionic Strength	0.132465	Ionic Strength	0.123477
Osmotic Pressure	876.159	Osmotic Pressure	1132.21	Osmotic Pressure	855.519	Osmotic Pressure	862.859
Initial Cl-	20	Initial Cl-	97	Initial Cl-	23.5	Initial Cl-	32.1
Initial NO3-	4	Initial NO3-	21	Initial NO3-	11.8	Initial NO3-	1.8
Final Cl-/NO3- ratio	1.64E+01	Final Cl-/NO3- ratio	1.10E+31	Final Cl-/NO3- ratio	1.61E+00	Final Cl-/NO3- ratio	6.64E+00
Concentration factor	12357.905	Concentration factor	40355.66	Concentration factor	17055.926	Concentration factor	34072.383

Species	Aqueous mol/kg	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg H2O	Species	Aqueous mol/kg
Calcium ion(+2)	2.95E-08	**Calcium ion(+2)**	9.13E+00	**Calcium ion(+2)**	2.619E-08	**Calcium ion(+2)**	1.20E-08
Magnesium ion(+2)	9.71E-10	**Magnesium ion(+2)**	3.69E-11	**Magnesium ion(+2)**	6.1078E-10	**Magnesium ion(+2)**	8.78E-10
Sodium ion(+1)	9.72E+00	**Sodium ion(+1)**	1.57E+01	**Sodium ion(+1)**	10.0920768	**Sodium ion(+1)**	9.27E+00
Potassium ion(+1)		**Potassium ion(+1)**		**Potassium ion(+1)**		**Potassium ion(+1)**	
Chloride ion(-1)	6.97E+00	**Chloride ion(-1)**	4.03E+01	**Chloride ion(-1)**	4.12120638	**Chloride ion(-1)**	3.66E+00
Nitrate ion(-1)	4.25E-01	**Nitrate ion(-1)**	3.66E-30	**Nitrate ion(-1)**	2.56282346	**Nitrate ion(-1)**	5.51E-01
Sulfate ion(-2)	1.53E-02	**Sulfate ion(-2)**	5.73E-01	**Sulfate ion(-2)**	0.00034264	**Sulfate ion(-2)**	8.39E-03
Fluoride ion(-1)	2.89E-02	**Fluoride ion(-1)**	4.80E-05	**Fluoride ion(-1)**	0.03638251	**Fluoride ion(-1)**	3.09E-02
Bromide ion (-1)	1.57E+00	**Bromide ion (-1)**	6.11E+00	**Bromide ion (-1)**	2.16992315	**Bromide ion (-1)**	4.24E+00
Bicarbonate ion(-1)	3.30E-03	**Bicarbonate ion(-1)**	4.47E-09	**Bicarbonate ion(-1)**	0.00594339	**Bicarbonate ion(-1)**	6.29E-03
Carbonate ion(-2)	2.59E-01	**Carbonate ion(-2)**	3.48E-06	**Carbonate ion(-2)**	0.42394039	**Carbonate ion(-2)**	2.83E-01
Calcium mononitrate ion(+1)	1.93E-07	**Calcium mononitrate ion(+1)**	1.37E+01	**Calcium mononitrate ion(+1)**	5.4934E-07	**Calcium mononitrate ion(+1)**	2.19E-07
Sodium nitrate	3.72E-01	**Sodium nitrate**	2.94E-03	**Sodium nitrate**	0.68303015	**Sodium nitrate**	4.38E-01
Silicon dioxide (amorphous)	1.86E-03	**Silicon dioxide (amorphous)**	3.30E-05	**Silicon dioxide (amorphous)**	0.00189977	**Silicon dioxide (amorphous)**	1.81E-03
Trihydrogen silicate ion(-1)	1.90E-01	Trihydrogen silicate ion(-1)	5.99E-05	Trihydrogen silicate ion(-1)	0.28526889	Trihydrogen silicate ion(-1)	2.05E-01
Dihydrogen orthosilicate ion(-2)	7.84E-03	Dihydrogen orthosilicate ion(-2)	1.35E-07	Dihydrogen orthosilicate ion(-2)	0.01888859	Dihydrogen orthosilicate ion(-2)	8.34E-03
Calcium monochloride ion(+1)	8.91E-08	Calcium monochloride ion(+1)	1.27E-10	Calcium monochloride ion(+1)	6.6794E-08	Calcium monochloride ion(+1)	7.50E-08
Calcium monofluoride ion(+1)	3.78E-08	Calcium monofluoride ion(+1)	1.51E-05	Calcium monofluoride ion(+1)	3.0052E-08	Calcium monofluoride ion(+1)	3.55E-08
Sodium fluoride	2.83E-02	Sodium fluoride	5.88E-10	Sodium fluoride	0.03514015	Sodium fluoride	3.45E-02
Disodium fluoride ion(+1)	1.66E-01	Disodium fluoride ion(+1)	4.96E-09	Disodium fluoride ion(+1)	0.13238094	Disodium fluoride ion(+1)	1.56E-01
Calcium sulfate	7.83E-10	Calcium sulfate	2.44E-07	Calcium sulfate	9.7413E-10	Calcium sulfate	9.56E-10
Magnesium sulfate	8.93E-11	Magnesium sulfate	8.01E-09	Magnesium sulfate	7.5334E-11	Magnesium sulfate	1.13E-10
Sodium sulfate ion(-1)	3.07E-31	Sodium sulfate ion(-1)	7.40E-121	Sodium sulfate ion(-1)	1.1618E-19	Sodium sulfate ion(-1)	1.34E-17
Potassium chloride		Potassium chloride		Potassium chloride		Potassium chloride	
Sodium bromide	4.36E-01	Sodium bromide	3.47E-03	Sodium bromide	0.60498735	Sodium bromide	1.30E+00
Sodium carbonate ion(-1)	1.21E-01	Sodium carbonate ion(-1)	5.71E-09	Sodium carbonate ion(-1)	0.15461811	Sodium carbonate ion(-1)	1.28E-01
Sodium hydrogen metasilicate	2.45E+00	Sodium hydrogen metasilicate	6.22E-08	Sodium hydrogen metasilicate	3.69252273	Sodium hydrogen metasilicate	2.93E+00

Species Output (True Species)		Species Output (True Species)		Species Output (True Species)		Species Output (True Species)	
Aqu UZ-14/85.2-85.6	Aqueous	Aqu UZ/14C	Aqueous	Aqu UZ-16/1343.7	Aqueous	Aqu UZ-16/1643.4	Aqueous
Brine Type		**Brine Type**		**Brine Type**		**Brine Type**	
Temperature	110°C	Temperature	110°C	Temperature	110°C	Temperature	110°C
Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm	Pressure	0.85 atm
pH	**7.29724**	**pH**	**8.25454**	**pH**	**10.7255**	**pH**	**6.43144**
Ionic Strength	0.149267	Ionic Strength	0.133915	Ionic Strength	0.124953	Ionic Strength	0.171836
Osmotic Pressure	813.729	Osmotic Pressure	858.386	Osmotic Pressure	863.669	Osmotic Pressure	871.188
Initial Cl-	60	Initial Cl-	15.5	Initial Cl-	56	Initial Cl-	70
Initial NO3-	22	Initial NO3-	0	Initial NO3-	18	Initial NO3-	8
Final Cl-/NO3- ratio	1.44E+00	Final Cl-/NO3- ratio	#DIV/0!	Final Cl-/NO3- ratio	2.41E+00	Final Cl-/NO3- ratio	3.28E+02
Concentration factor	22696.356	Concentration factor	43675.104	Concentration factor	8866.002	Concentration factor	12067.822
	Aqueous		Aqueous		Aqueous		Aqueous
Species	Aqueous	Species	mol/kg H2O	Species	mol/kg H2O	Species	mol/kg H2O
Calcium ion(+2)	3.93E-02	**Calcium ion(+2)**	2.86E-04	**Calcium ion(+2)**	3.52E-08	**Calcium ion(+2)**	2.54E+00
Magnesium ion(+2)	2.91E-04	**Magnesium ion(+2)**	1.23E-07	**Magnesium ion(+2)**	3.39E-10	**Magnesium ion(+2)**	4.52E-02
Sodium ion(+1)	8.43E+00	**Sodium ion(+1)**	0.00E+00	**Sodium ion(+1)**	9.49E+00	**Sodium ion(+1)**	2.68E+00
Potassium ion(+1)		**Potassium ion(+1)**	7.56E-02	**Potassium ion(+1)**		**Potassium ion(+1)**	
Chloride ion(-1)	5.35E+00	**Chloride ion(-1)**	2.64E-51	**Chloride ion(-1)**	4.70E+00	**Chloride ion(-1)**	8.34E+00
Nitrate ion(-1)	3.72E+00	**Nitrate ion(-1)**		**Nitrate ion(-1)**	1.95E+00	**Nitrate ion(-1)**	2.54E-02
Sulfate ion(-2)	4.58E-06	**Sulfate ion(-2)**	4.57E-31	**Sulfate ion(-2)**	9.56E-04	**Sulfate ion(-2)**	1.72E-04
Fluoride ion(-1)	3.58E-05	**Fluoride ion(-1)**	4.53E-06	**Fluoride ion(-1)**	4.01E-02	**Fluoride ion(-1)**	1.05E-05
Bromide ion (-1)	3.00E+00	**Bromide ion (-1)**	5.58E+00	**Bromide ion (-1)**	1.15E+00	**Bromide ion (-1)**	1.65E+00
Bicarbonate ion(-1)	2.03E-06	**Bicarbonate ion(-1)**	1.51E-05	**Bicarbonate ion(-1)**	3.48E-03	**Bicarbonate ion(-1)**	7.66E-08
Carbonate ion(-2)	1.35E-07	**Carbonate ion(-2)**	4.14E+00	**Carbonate ion(-2)**	4.85E-01	**Carbonate ion(-2)**	1.84E-09
Calcium mononitrate ion(+1)	3.48E+00	**Calcium mononitrate ion(+1)**	1.80E-04	**Calcium mononitrate ion(+1)**	3.84E-07	**Calcium mononitrate ion(+1)**	1.50E+00
Sodium nitrate	8.48E-01			**Sodium nitrate**	6.24E-01	**Sodium nitrate**	3.37E-02
Silicon dioxide (amorphous)	2.30E-03	**Silicon dioxide (amorphous)**	1.41E-73	**Silicon dioxide (amorphous)**	2.05E-03	**Silicon dioxide (amorphous)**	1.91E-03
Trihydrogen silicate ion(-1)	2.30E-04	Trihydrogen silicate ion(-1)	2.18E-03	Trihydrogen silicate ion(-1)	5.19E-01	Trihydrogen silicate ion(-1)	1.36E-05
Dihydrogen orthosilicate ion(-2)	9.93E-09	Dihydrogen orthosilicate ion(-2)	1.15E-03	Dihydrogen orthosilicate ion(-2)	5.62E-02	Dihydrogen orthosilicate ion(-2)	8.04E-11
Calcium monochloride ion(+1)	8.38E-02	Calcium monochloride ion(+1)	2.52E-03	Calcium monochloride ion(+1)	4.74E-08	Calcium monochloride ion(+1)	6.66E-01
Calcium monofluoride ion(+1)	8.48E-05	Calcium monofluoride ion(+1)	1.14E-05	Calcium monofluoride ion(+1)	2.75E-08	Calcium monofluoride ion(+1)	5.02E-04
Sodium fluoride	3.13E-05	Sodium fluoride	2.42E-02	Sodium fluoride	3.65E-02	Sodium fluoride	1.29E-06
Disodium fluoride ion(+1)	1.03E-04	Disodium fluoride ion(+1)	1.85E-04	Disodium fluoride ion(+1)	1.21E-01	Disodium fluoride ion(+1)	2.21E-06
Calcium sulfate	2.15E-04	Calcium sulfate	4.15E-08	Calcium sulfate	1.01E-09	Calcium sulfate	1.46E-04
Magnesium sulfate	1.21E-05	Magnesium sulfate	2.43E-10	Magnesium sulfate	3.07E-11	Magnesium sulfate	1.28E-05
Sodium sulfate ion(-1)	3.42E-25	Sodium sulfate ion(-1)	1.83E-01	Sodium sulfate ion(-1)	7.32E-22	Sodium sulfate ion(-1)	4.26E-39
Potassium chloride		Potassium chloride	2.41E+00	Potassium chloride		Potassium chloride	
Sodium bromide	6.88E-01	Sodium bromide	2.97E-06	Sodium bromide	2.92E-01	Sodium bromide	3.11E-01
Sodium carbonate ion(-1)	4.58E-08	Sodium carbonate ion(-1)	0.00E+00	Sodium carbonate ion(-1)	1.65E-01	Sodium carbonate ion(-1)	4.71E-10
Sodium hydrogen metasilicate	2.54E-03	Sodium hydrogen metasilicate	7.75E+00	Sodium hydrogen metasilicate	6.13E+00	Sodium hydrogen metasilicate	8.35E-05

Species Output (True Species)

Aqu WT-24/1937.0	Aqueous
Brine Type	
Temperature	110°C
Pressure	0.85 atm
pH	**10.5459**
Ionic Strength	0.129609
Osmotic Pressure	887.016
Initial Cl-	35.8
Initial NO3-	0.5
Final Cl-/NO3- ratio	4.29E+02
Concentration factor	7346.098

Species	Aqueous mol/kg H2O
Calcium ion(+2)	2.98E-08
Magnesium ion(+2)	4.01E-10
Sodium ion(+1)	8.23E+00
Potassium ion(+1)	1.21E+00
Chloride ion(-1)	7.38E+00
Nitrate ion(-1)	1.72E-02
Sulfate ion(-2)	6.35E-02
Fluoride ion(-1)	1.33E-01
Bromide ion (-1)	9.83E-01
Bicarbonate ion(-1)	2.30E-03
Carbonate ion(-2)	3.14E-01
Calcium mononitrate ion(+1)	5.90E-09
Sodium nitrate	4.20E-02
Silicon dioxide (amorphous)	2.65E-03
Trihydrogen silicate ion(-1)	5.25E-01
Dihydrogen orthosilicate ion(-2)	3.63E-02
Calcium monochloride ion(+1)	3.90E-08
Calcium monofluoride ion(+1)	1.32E-07
Sodium fluoride	1.22E-01
Disodium fluoride ion(+1)	5.87E-01
Calcium sulfate	8.21E-10
Magnesium sulfate	4.18E-11
Sodium sulfate ion(-1)	8.04E-33
Potassium chloride	3.87E-02
Sodium bromide	2.13E-01
Sodium carbonate ion(-1)	1.39E-01
Sodium hydrogen metasilicate	4.99E+00

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3248	0.010812	55.314	0	0	5.5508E+01	5133.73534
Carbon dioxide	5.57E-04	6.17E-13	5.57E-04	0	0	3.1680E-09	
Magnesium carbonate	1.30E-13	1.30E-13	0.00E+00	0	0	6.6934E-10	
Magnesium fluoride	5.73E-05	0.00E+00	0	5.73E-05	0	0.0000E+00	
Sodium chloride	1.52E-03	0	0	1.52E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	1.62E-03	1.43E-07	0	1.62E-03	0	7.3181E-04	
Sulfur trioxide	3.40E-30	1.95E-33	3.39E-30	0.00E+00	0	1.0010E-29	
Hydrofluoride, dimer	8.64E-20	1.03E-24	8.64E-20	0	0	5.3012E-21	
Calcium chloride	4.62E-10	4.62E-10	0.00E+00	0	0	2.3726E-06	
Calcium carbonate (calcite)	2.33E-14	2.33E-14	0	0	0	1.1962E-10	
Calcium silicon dioxide dihydroxide	2.94E-14	2.94E-14	0	0	0	1.5072E-10	
Calcium sulfate	1.05E-03	2.67E-09	0	1.05E-03	0	1.3700E-05	
Dihydrogen hexafluorosilicate	1.06E-52	1.06E-52	0	0	0	5.4460E-49	
Sulfuric(VI) acid	6.32E-25	1.51E-30	6.32E-25	0	0	7.7469E-27	
Hydrogen bromide	2.52E-08	6.84E-19	2.52E-08	0	0	3.5097E-15	
Hydrogen chloride	1.66E-05	6.12E-14	1.66E-05	0	0	3.1397E-10	
Hydrogen fluoride	1.11E-08	8.15E-14	1.11E-08	0	0	4.1833E-10	
Nitric acid	7.86E-09	1.93E-15	7.86E-09	0	0	9.8938E-12	
Magnesium hydroxide	2.86E-04	0	0	2.86E-04	0	0.0000E+00	
Magnesium chloride hexahydrate	4.60E-04	0.00E+00	0	4.60E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	5.20E-12	5.20E-12	0	0	0	2.6708E-08	
Magnesium sulfate	2.78E-08	2.78E-08	0	0	0	1.4284E-04	
Sodium bromide	3.22E-06	3.22E-06	0	0	0	1.6553E-02	
Sodium fluoride	7.76E-13	7.76E-13	0	0	0	3.9814E-09	
Sodium bicarbonate	8.65E-16	8.65E-16	0	0	0	4.4421E-12	
Sodium hydrogen metasilicate	2.10E-11	2.10E-11	0	0	0	1.0762E-07	
Sodium nitrate	1.19E-08	1.19E-08	0.00E+00	0	0	6.1231E-05	
Silicon tetrachloride	1.06E-46	1.78E-61	1.06E-46	0	0	9.1235E-58	
Tetrafluorosilane	3.98E-29	1.24E-34	3.98E-29	0	0	6.3520E-31	
Bromide ion (-1)	1.59E-04	1.59E-04	0	0	0	8.1855E-01	
Calcium mononitrate ion(+1)	5.16E-04	5.16E-04	0	0	0	2.6493E+00	
Calcium ion(+2)	1.57E-03	1.57E-03	0	0	0	8.0820E+00	
Calcium monochloride ion(+1)	6.85E-05	6.85E-05	0	0	0	3.5185E-01	
Calcium monofluoride ion(+1)	1.31E-08	1.31E-08	0	0	0	6.7299E-05	
Calcium bicarbonate ion(+1)	1.96E-10	1.96E-10	0	0	0	1.0067E-06	
Calcium hydrogen silicate ion(+1)	6.03E-08	6.03E-08	0	0	0	3.0970E-04	
Calcium hydroxide ion(+1)	6.45E-09	6.45E-09	0	0	0	3.3104E-05	
Chloride ion(-1)	2.70E-03	2.70E-03	0	0	0	1.3840E+01	
Carbonate ion(-2)	2.02E-15	2.02E-15	0	0	0	1.0395E-11	
Fluoride ion(-1)	1.59E-09	1.59E-09	0	0	0	8.1819E-06	
Hydrogen ion(+1)	1.38E-12	1.38E-12	0	0	0	7.0914E-09	
Dihydrogen orthosilicate ion(-2)	2.24E-16	2.24E-16	0	0	0	1.1488E-12	
Trihydrogen silicate ion(-1)	7.54E-11	7.54E-11	0	0	0	3.8696E-07	
Bicarbonate ion(-1)	6.61E-14	6.61E-14	0	0	0	3.3937E-10	
Hydrogen difluoride ion (-1)	5.11E-19	5.11E-19	0	0	0	2.6239E-15	
Hydrogen hexafluorosilicate ion(-1)	4.20E-44	4.20E-44	0	0	0	2.1579E-40	
Bisulfate(VI) ion (-1)	9.66E-14	9.66E-14	0	0	0	4.9616E-10	
Magnesium ion(+2)	1.54E-04	1.54E-04	0	0	0	7.8831E-01	
Magnesium monofluoride ion(+1)	4.06E-08	4.06E-08	0	0	0	2.0823E-04	
Magnesium bicarbonate ion(+1)	1.41E-09	1.41E-09	0	0	0	7.2325E-06	
Magnesium hydrogen metasilicate i	1.36E-06	1.36E-06	0	0	0	6.9809E-03	
Magnesium hydroxide ion(+1)	6.08E-07	6.08E-07	0	0	0	3.1209E-03	
Sodium ion(+1)	2.78E-05	2.78E-05	0	0	0	1.4283E-01	
Disodium fluoride ion(+1)	1.30E-12	1.30E-12	0	0	0	6.6639E-09	
Sodium carbonate ion(-1)	5.14E-17	5.14E-17	0	0	0	2.6381E-13	
Sodium sulfate ion(-1)	2.13E-65	2.13E-65	0	0	0	1.0939E-61	
Nitrate ion(-1)	1.79E-41	1.79E-41	0	0	0	9.2044E-38	
Hydroxide ion(-1)	9.08E-11	9.08E-11	0	0	0	4.6589E-07	
Hexafluorosilicon ion(-2)	4.59E-39	4.59E-39	0	0	0	2.3563E-35	
Sulfate ion(-2)	6.07E-04	6.07E-04	0	0	0	3.1182E+00	

Species Output (True Species)

Aqu NRG-6/ 158.2	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	3.39E-10
Bisulfate(VI) ion (-1)	4.96E-10
Bromide ion (-1)	8.19E-01
Calcium bicarbonate ion(+1)	1.01E-06
Calcium carbonate (calcite)	1.20E-10
Calcium chloride	2.37E-06
Calcium hydrogen silicate ion(+1)	3.10E-04
Calcium hydroxide ion(+1)	3.31E-05
Calcium ion(+2)	8.08E+00
Calcium monochloride ion(+1)	3.52E-01
Calcium monofluoride ion(+1)	6.73E-05
Calcium mononitrate ion(+1)	2.65E+00
Calcium silicon dioxide dihydroxide	1.51E-10
Calcium sulfate	1.37E-05
Carbon dioxide	3.17E-09
Carbonate ion(-2)	1.04E-11
Chloride ion(-1)	1.38E+01
Dihydrogen hexafluorosilicate	5.45E-49
Dihydrogen orthosilicate ion(-2)	1.15E-12
Disodium fluoride ion(+1)	6.66E-09
Fluoride ion(-1)	8.18E-06
Hexafluorosilicon ion(-2)	2.36E-35
Hydrofluoride, dimer	5.30E-21
Hydrogen bromide	3.51E-15
Hydrogen chloride	3.14E-10
Hydrogen difluoride ion (-1)	2.62E-15
Hydrogen fluoride	4.18E-10
Hydrogen hexafluorosilicate ion(-1)	2.16E-40
Hydrogen ion(+1)	7.09E-09
Hydroxide ion(-1)	4.66E-07
Magnesium bicarbonate ion(+1)	7.23E-06
Magnesium carbonate	6.69E-10
Magnesium chloride hexahydrate	0.00E+00
Magnesium dihydrogen orthosilicate	2.67E-08
Magnesium fluoride	0.00E+00
Magnesium hydrogen metasilicate ion(+'	6.98E-03
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	3.12E-03
Magnesium ion(+2)	7.88E-01
Magnesium monofluoride ion(+1)	2.08E-04
Magnesium sulfate	1.43E-04
Nitrate ion(-1)	9.20E-38
Nitric acid	9.89E-12
Silicon dioxide (amorphous)	7.32E-04
Silicon tetrachloride	9.12E-58
Sodium bicarbonate	4.44E-12
Sodium bromide	1.66E-02

Sodium carbonate ion(-1)	2.64E-13
Sodium chloride	0.00E+00
Sodium fluoride	3.98E-09
Sodium hydrogen metasilicate	1.08E-07
Sodium ion(+1)	1.43E-01
Sodium nitrate	6.12E-05
Sodium sulfate ion(-1)	1.09E-61
Sulfate ion(-2)	3.12E+00
Sulfur trioxide	1.00E-29
Sulfuric(VI) acid	7.75E-27
Tetrafluorosilane	6.35E-31
Trihydrogen silicate ion(-1)	3.87E-07

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3279	0.018186	55.3097	0	0	5.5508E+01	3052.188
Calcium carbonate (calcite)	3.29E-12	3.29E-12	0	0	0	1.0038E-08	
Carbon dioxide	9.01E-04	1.15E-11	9.01E-04	0	0	3.4983E-08	
Magnesium carbonate	3.19E-12	3.19E-12	0	0	0	9.7261E-09	
Magnesium fluoride	5.73E-05	0	0	5.73E-05	0	0.0000E+00	
Sodium chloride	9.25E-04	0	0	9.25E-04	0	0.0000E+00	
Silicon dioxide (amorphous)	1.40E-03	5.74E-07	0	1.40E-03	0	1.7534E-03	
Sulfur trioxide	5.93E-31	5.10E-33	5.88E-31	0	0	1.5567E-29	
Hydrofluoride, dimer	8.65E-20	1.56E-23	8.64E-20	0	0	4.7615E-20	
Calcium chloride	2.00E-10	2.00E-10	0	0	0	6.0992E-07	
Calcium silicon dioxide dihydroxide	2.56E-12	2.56E-12	0	0	0	7.8183E-09	
Calcium sulfate	1.45E-03	4.03E-08	0	1.45E-03	0	1.2305E-04	
Dihydrogen hexafluorosilicate	1.60E-51	1.60E-51	0	0	0	4.8915E-48	
Sulfuric(VI) acid	1.09E-25	3.95E-30	1.09E-25	0	0	1.2048E-26	
Hydrogen bromide	7.77E-10	3.19E-19	7.77E-10	0	0	9.7361E-16	
Hydrogen chloride	1.17E-06	6.50E-14	1.17E-06	0	0	1.9852E-10	
Hydrogen fluoride	1.11E-08	1.21E-12	1.11E-08	0	0	3.6839E-09	
Nitric acid	1.50E-09	5.60E-15	1.50E-09	0	0	1.7096E-11	
Magnesium hydroxide	4.50E-04	0	0	4.50E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	7.86E-11	7.86E-11	0	0	0	2.3989E-07	
Magnesium sulfate	7.28E-08	7.28E-08	0	0	0	2.2215E-04	
Sodium bromide	2.14E-05	2.14E-05	0	0	0	6.5229E-02	
Sodium fluoride	1.66E-10	1.66E-10	0	0	0	5.0798E-07	
Sodium bicarbonate	3.00E-13	3.00E-13	0	0	0	9.1690E-10	
Sodium hydrogen metasilicate	4.50E-09	4.50E-09	0	0	0	1.3732E-05	
Sodium nitrate	1.16E-05	1.16E-05	0	0	0	3.5441E-02	
Silicon tetrachloride	2.60E-51	6.59E-65	2.60E-51	0	0	2.0126E-61	
Tetrafluorosilane	3.98E-29	1.87E-33	3.98E-29	0	0	5.7053E-30	
Bromide ion (-1)	1.41E-04	1.41E-04	0	0	0	4.3134E-01	
Calcium mononitrate ion(+1)	5.42E-04	5.42E-04	0	0	0	1.6540E+00	
Calcium ion(+2)	8.09E-04	8.09E-04	0	0	0	2.4681E+00	
Calcium monochloride ion(+1)	1.06E-04	1.06E-04	0	0	0	3.2447E-01	
Calcium monofluoride ion(+1)	6.77E-08	6.77E-08	0	0	0	2.0656E-04	
Calcium bicarbonate ion(+1)	7.97E-10	7.97E-10	0	0	0	2.4337E-06	
Calcium hydrogen silicate ion(+1)	3.11E-07	3.11E-07	0	0	0	9.5055E-04	
Calcium hydroxide ion(+1)	3.55E-08	3.55E-08	0	0	0	1.0831E-04	
Chloride ion(-1)	3.14E-03	3.14E-03	0	0	0	9.5907E+00	

Carbonate ion(-2)	1.60E-14	1.60E-14	0	0	0	4.8896E-11
Fluoride ion(-1)	2.70E-09	2.70E-09	0	0	0	8.2486E-06
Hydrogen ion(+1)	1.57E-10	1.57E-10	0	0	0	4.7893E-07
Dihydrogen orthosilicate ion(-2)	1.82E-15	1.82E-15	0	0	0	5.5487E-12
Trihydrogen silicate ion(-1)	1.03E-09	1.03E-09	0	0	0	3.1559E-06
Bicarbonate ion(-1)	1.54E-12	1.54E-12	0	0	0	4.6904E-09
Hydrogen difluoride ion (-1)	7.61E-18	7.61E-18	0	0	0	2.3239E-14
Hydrogen hexafluorosilicate ion(-1)	1.10E-43	1.10E-43	0	0	0	3.3606E-40
Bisulfate(VI) ion (-1)	2.34E-13	2.34E-13	0	0	0	7.1309E-10
Magnesium ion(+2)	2.31E-04	2.31E-04	0	0	0	7.0554E-01
Magnesium monofluoride ion(+1)	3.63E-08	3.63E-08	0	0	0	1.1067E-04
Magnesium bicarbonate ion(+1)	2.15E-09	2.15E-09	0	0	0	6.5587E-06
Magnesium hydrogen metasilicate ior	1.22E-06	1.22E-06	0	0	0	3.7100E-03
Magnesium hydroxide ion(+1)	5.79E-07	5.79E-07	0	0	0	1.7680E-03
Sodium ion(+1)	5.65E-04	5.65E-04	0	0	0	1.7233E+00
Disodium fluoride ion(+1)	2.34E-10	2.34E-10	0	0	0	7.1463E-07
Sodium carbonate ion(-1)	3.09E-15	3.09E-15	0	0	0	9.4420E-12
Sodium sulfate ion(-1)	1.52E-47	1.52E-47	0	0	0	4.6434E-44
Nitrate ion(-1)	1.09E-05	1.09E-05	0	0	0	3.3383E-02
Hydroxide ion(-1)	1.89E-10	1.89E-10	0	0	0	5.7827E-07
Hexafluorosilicon ion(-2)	1.39E-38	1.39E-38	0	0	0	4.2482E-35
Sulfate ion(-2)	7.15E-08	7.15E-08	0	0	0	2.1834E-04

Species Output (True Species)

Aqu NRG-6/160.8	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	4.69E-09
Bisulfate(VI) ion (-1)	7.13E-10
Bromide ion (-1)	4.31E-01
Calcium bicarbonate ion(+1)	2.43E-06
Calcium carbonate (calcite)	1.00E-08
Calcium chloride	6.10E-07
Calcium hydrogen silicate ion(+1)	9.51E-04
Calcium hydroxide ion(+1)	1.08E-04
Calcium ion(+2)	2.47E+00
Calcium monochloride ion(+1)	3.24E-01
Calcium monofluoride ion(+1)	2.07E-04
Calcium mononitrate ion(+1)	1.65E+00
Calcium silicon dioxide dihydroxide	7.82E-09
Calcium sulfate	1.23E-04
Carbon dioxide	3.50E-08
Carbonate ion(-2)	4.89E-11
Chloride ion(-1)	9.59E+00
Dihydrogen hexafluorosilicate	4.89E-48
Dihydrogen orthosilicate ion(-2)	5.55E-12
Disodium fluoride ion(+1)	7.15E-07
Fluoride ion(-1)	8.25E-06
Hexafluorosilicon ion(-2)	4.25E-35
Hydrofluoride, dimer	4.76E-20
Hydrogen bromide	9.74E-16
Hydrogen chloride	1.99E-10
Hydrogen difluoride ion (-1)	2.32E-14
Hydrogen fluoride	3.68E-09
Hydrogen hexafluorosilicate ion(-1)	3.36E-40
Hydrogen ion(+1)	4.79E-07
Hydroxide ion(-1)	5.78E-07
Magnesium bicarbonate ion(+1)	6.56E-06
Magnesium carbonate	9.73E-09
Magnesium dihydrogen orthosilicate	2.40E-07
Magnesium fluoride	0.00E+00
Magnesium hydrogen metasilicate ion(+1)	3.71E-03
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	1.77E-03
Magnesium ion(+2)	7.06E-01
Magnesium monofluoride ion(+1)	1.11E-04
Magnesium sulfate	2.22E-04
Nitrate ion(-1)	3.34E-02
Nitric acid	1.71E-11
Silicon dioxide (amorphous)	1.75E-03
Silicon tetrachloride	2.01E-61
Sodium bicarbonate	9.17E-10
Sodium bromide	6.52E-02
Sodium carbonate ion(-1)	9.44E-12

Sodium chloride	0.00E+00
Sodium fluoride	5.08E-07
Sodium hydrogen metasilicate	1.37E-05
Sodium ion(+1)	1.72E+00
Sodium nitrate	3.54E-02
Sodium sulfate ion(-1)	4.64E-44
Sulfate ion(-2)	2.18E-04
Sulfur trioxide	1.56E-29
Sulfuric(VI) acid	1.20E-26
Tetrafluorosilane	5.71E-30
Trihydrogen silicate ion(-1)	3.16E-06

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3287	7.43E-04	55.3279	0	0	5.5508E+01	74715.99
Calcium carbonate (calcite)	1.37E-04	1.73E-12	0	1.37E-04	0	1.2900E-07	
Calcium fluoride	5.74E-05	0	0	5.74E-05	0	0.0000E+00	
Calcium sulfate	9.79E-04	3.68E-10	0	9.79E-04	0	2.7503E-05	
Carbon dioxide	8.66E-04	3.45E-13	8.66E-04	0	0	2.5742E-08	
Magnesium carbonate	2.80E-14	2.80E-14	0	0	0	2.0890E-09	
Sodium chloride	1.25E-03	0	0	1.25E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	1.32E-03	1.88E-08	0	1.32E-03	0	1.4067E-03	
Sulfur trioxide	9.83E-33	7.78E-37	9.83E-33	0	0	5.8152E-32	
Hydrofluoride, dimer	5.17E-21	8.52E-27	5.17E-21	0	0	6.3693E-22	
Calcium chloride	8.07E-15	8.07E-15	0	0	0	6.0262E-10	
Calcium silicon dioxide dihydroxide	1.40E-12	1.40E-12	0	0	0	1.0455E-07	
Dihydrogen hexafluorosilicate	3.14E-57	3.14E-57	0	0	0	2.3437E-52	
Sulfuric(VI) acid	1.83E-27	6.02E-34	1.83E-27	0	0	4.5006E-29	
Hydrogen bromide	2.75E-11	1.03E-22	2.75E-11	0	0	7.6837E-18	
Hydrogen chloride	1.01E-08	5.10E-18	1.01E-08	0	0	3.8139E-13	
Hydrogen fluoride	2.72E-09	1.26E-16	2.72E-09	0	0	9.3902E-12	
Nitric acid	4.45E-08	1.82E-15	4.45E-08	0	0	1.3611E-10	
Magnesium hydroxide	4.73E-04	0	0	4.73E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	7.18E-13	7.18E-13	0	0	0	5.3617E-08	
Magnesium sulfate	1.11E-11	1.11E-11	0	0	0	8.2982E-07	
Sodium bromide	8.02E-07	8.02E-07	0	0	0	5.9889E-02	
Sodium fluoride	4.32E-11	4.32E-11	0	0	0	3.2314E-06	
Sodium bicarbonate	3.07E-13	3.07E-13	0	0	0	2.2911E-08	
Sodium hydrogen metasilicate	4.78E-09	4.78E-09	0	0	0	3.5705E-04	
Sodium nitrate	1.27E-05	1.27E-05	0	0	0	9.4588E-01	
Silicon tetrachloride	1.42E-59	3.29E-75	1.42E-59	0	0	2.4555E-70	
Tetrafluorosilane	1.42E-31	6.11E-38	1.42E-31	0	0	4.5675E-33	
Bromide ion (-1)	1.62E-04	1.62E-04	0	0	0	1.2096E+01	
Calcium mononitrate ion(+1)	6.11E-04	6.11E-04	0	0	0	4.5651E+01	
Calcium ion(+2)	6.99E-13	6.99E-13	0	0	0	5.2192E-08	
Calcium monochloride ion(+1)	4.20E-10	4.20E-10	0	0	0	3.1362E-05	
Calcium monofluoride ion(+1)	9.09E-10	9.09E-10	0	0	0	6.7949E-05	
Calcium bicarbonate ion(+1)	1.49E-11	1.49E-11	0	0	0	1.1164E-06	
Calcium hydrogen silicate ion(+1)	1.71E-08	1.71E-08	0	0	0	1.2780E-03	
Calcium hydroxide ion(+1)	2.24E-10	2.24E-10	0	0	0	1.6701E-05	
Chloride ion(-1)	3.84E-04	3.84E-04	0	0	0	2.8654E+01	

Carbonate ion(-2)	6.35E-12	6.35E-12	0	0	0	4.7448E-07
Fluoride ion(-1)	1.26E-09	1.26E-09	0	0	0	9.4142E-05
Hydrogen ion(+1)	3.00E-26	3.00E-26	0	0	0	2.2390E-21
Dihydrogen orthosilicate ion(-2)	1.55E-12	1.55E-12	0	0	0	1.1617E-07
Trihydrogen silicate ion(-1)	1.79E-08	1.79E-08	0	0	0	1.3400E-03
Bicarbonate ion(-1)	2.98E-13	2.98E-13	0	0	0	2.2247E-08
Hydrogen difluoride ion (-1)	5.25E-18	5.25E-18	0	0	0	3.9196E-13
Hydrogen hexafluorosilicate ion(-1)	5.48E-47	5.48E-47	0	0	0	4.0972E-42
Bisulfate(VI) ion (-1)	3.13E-15	3.13E-15	0	0	0	2.3380E-10
Magnesium ion(+2)	3.83E-15	3.83E-15	0	0	0	2.8601E-10
Magnesium monofluoride ion(+1)	8.14E-12	8.14E-12	0	0	0	6.0844E-07
Magnesium bicarbonate ion(+1)	7.10E-13	7.10E-13	0	0	0	5.3067E-08
Magnesium hydrogen metasilicate ion(	1.12E-09	1.12E-09	0	0	0	8.3370E-05
Magnesium hydroxide ion(+1)	6.10E-11	6.10E-11	0	0	0	4.5564E-06
Sodium ion(+1)	4.20E-06	4.20E-06	0	0	0	3.1402E-01
Disodium fluoride ion(+1)	7.12E-10	7.12E-10	0	0	0	5.3179E-05
Sodium carbonate ion(-1)	8.03E-13	8.03E-13	0	0	0	6.0030E-08
Sodium sulfate ion(-1)	1.02E-132	1.02E-132	0	0	0	7.6195E-128
Nitrate ion(-1)	6.98E-05	6.98E-05	0	0	0	5.2148E+00
Hydroxide ion(-1)	3.02E-12	3.02E-12	0	0	0	2.2551E-07
Hexafluorosilicon ion(-2)	5.58E-40	5.58E-40	0	0	0	4.1657E-35

Species Output (True Species)

Aqu NRG-6/171.0	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	2.22E-08
Bisulfate(VI) ion (-1)	2.34E-10
Bromide ion (-1)	1.21E+01
Calcium bicarbonate ion(+1)	1.12E-06
Calcium carbonate (calcite)	1.29E-07
Calcium chloride	6.03E-10
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	1.28E-03
Calcium hydroxide ion(+1)	1.67E-05
Calcium ion(+2)	5.22E-08
Calcium monochloride ion(+1)	3.14E-05
Calcium monofluoride ion(+1)	6.79E-05
Calcium mononitrate ion(+1)	4.57E+01
Calcium silicon dioxide dihydroxide	1.05E-07
Calcium sulfate	2.75E-05
Carbon dioxide	2.57E-08
Carbonate ion(-2)	4.74E-07
Chloride ion(-1)	2.87E+01
Dihydrogen hexafluorosilicate	2.34E-52
Dihydrogen orthosilicate ion(-2)	1.16E-07
Disodium fluoride ion(+1)	5.32E-05
Fluoride ion(-1)	9.41E-05
Hexafluorosilicon ion(-2)	4.17E-35
Hydrofluoride, dimer	6.37E-22
Hydrogen bromide	7.68E-18
Hydrogen chloride	3.81E-13
Hydrogen difluoride ion (-1)	3.92E-13
Hydrogen fluoride	9.39E-12
Hydrogen hexafluorosilicate ion(-1)	4.10E-42
Hydrogen ion(+1)	2.24E-21
Hydroxide ion(-1)	2.26E-07
Magnesium bicarbonate ion(+1)	5.31E-08
Magnesium carbonate	2.09E-09
Magnesium dihydrogen orthosilicate	5.36E-08
Magnesium hydrogen metasilicate ion(	8.34E-05
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	4.56E-06
Magnesium ion(+2)	2.86E-10
Magnesium monofluoride ion(+1)	6.08E-07
Magnesium sulfate	8.30E-07
Nitrate ion(-1)	5.21E+00
Nitric acid	1.36E-10
Silicon dioxide (amorphous)	1.41E-03
Silicon tetrachloride	2.46E-70
Sodium bicarbonate	2.29E-08
Sodium bromide	5.99E-02
Sodium carbonate ion(-1)	6.00E-08

Sodium chloride	0.00E+00
Sodium fluoride	3.23E-06
Sodium hydrogen metasilicate	3.57E-04
Sodium ion(+1)	3.14E-01
Sodium nitrate	9.46E-01
Sodium sulfate ion(-1)	7.62E-128
Sulfur trioxide	5.82E-32
Sulfuric(VI) acid	4.50E-29
Tetrafluorosilane	4.57E-33
Trihydrogen silicate ion(-1)	1.34E-03

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3292	3.55E-04	55.3289	0	0	5.5508E+01	156397.570
Calcium nitrate	2.86E-04	0	0	2.86E-04	0	0.0000E+00	
Calcium carbonate (calcite)	1.38E-04	6.76E-15	0	1.38E-04	0	1.0571E-09	
Calcium fluoride	5.74E-05	0	0	5.74E-05	0	0.0000E+00	
Calcium sulfate	6.62E-04	1.44E-12	0	6.62E-04	0	2.2537E-07	
Magnesium carbonate	1.07E-16	1.07E-16	0	0	0	1.6699E-11	
Sodium chloride	1.05E-03	0	0	1.05E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	1.30E-03	2.27E-10	0	1.30E-03	0	3.5434E-05	
Sulfur trioxide	9.59E-33	2.97E-39	9.59E-33	0	0	4.6487E-34	
Hydrofluoride, dimer	5.05E-21	3.26E-29	5.05E-21	0	0	5.0917E-24	
Calcium chloride	2.87E-14	2.87E-14	0	0	0	4.4819E-09	
Calcium silicon dioxide dihydroxi	5.62E-15	5.62E-15	0	0	0	8.7823E-10	
Carbon dioxide	8.45E-04	3.19E-15	8.45E-04	0	0	4.9929E-10	
Dihydrogen hexafluorosilicate	1.14E-59	1.14E-59	0	0	0	1.7831E-54	
Sulfuric(VI) acid	1.78E-27	2.30E-36	1.78E-27	0	0	3.5979E-31	
Hydrogen bromide	5.35E-09	7.84E-23	5.35E-09	0	0	1.2261E-17	
Hydrogen chloride	2.99E-07	5.95E-19	2.99E-07	0	0	9.2996E-14	
Hydrogen fluoride	2.69E-09	1.06E-17	2.69E-09	0	0	1.6628E-12	
Nitric acid	7.53E-08	9.98E-18	7.53E-08	0	0	1.5613E-12	
Magnesium hydroxide	3.54E-04	0	0	3.54E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilic	2.81E-15	2.81E-15	0	0	0	4.3936E-10	
Magnesium sulfate	4.24E-14	4.24E-14	0	0	0	6.6337E-09	
Sodium bromide	1.26E-04	2.05E-08	0	1.26E-04	0	3.2117E-03	
Sodium fluoride	5.62E-15	5.62E-15	0	0	0	8.7894E-10	
Sodium bicarbonate	3.94E-17	3.94E-17	0	0	0	6.1551E-12	
Sodium hydrogen metasilicate	6.29E-13	6.29E-13	0	0	0	9.8327E-08	
Sodium nitrate	4.73E-08	4.73E-08	0	0	0	7.3989E-03	
Silicon tetrachloride	1.11E-53	1.01E-71	1.11E-53	0	0	1.5775E-66	
Tetrafluorosilane	1.36E-31	2.28E-40	1.36E-31	0	0	3.5621E-35	
Bromide ion (-1)	3.67E-05	3.67E-05	0	0	0	5.7422E+00	
Calcium mononitrate ion(+1)	1.05E-04	1.05E-04	0	0	0	1.6358E+01	
Calcium ion(+2)	5.63E-05	5.63E-05	0	0	0	8.8000E+00	
Calcium monochloride ion(+1)	1.25E-16	1.25E-16	0	0	0	1.9507E-11	
Calcium monofluoride ion(+1)	6.52E-11	6.52E-11	0	0	0	1.0194E-05	
Calcium bicarbonate ion(+1)	8.58E-14	8.58E-14	0	0	0	1.3422E-08	
Calcium hydrogen silicate ion(+1	1.24E-09	1.24E-09	0	0	0	1.9414E-04	
Calcium hydroxide ion(+1)	8.28E-12	8.28E-12	0	0	0	1.2954E-06	

Chloride ion(-1)	2.71E-04	2.71E-04	0	0	0	4.2376E+01
Carbonate ion(-2)	5.02E-11	5.02E-11	0	0	0	7.8496E-06
Fluoride ion(-1)	3.88E-10	3.88E-10	0	0	0	6.0752E-05
Hydrogen ion(+1)	1.71E-43	1.71E-43	0	0	0	2.6679E-38
Dihydrogen orthosilicate ion(-2)	2.14E-12	2.14E-12	0	0	0	3.3475E-07
Trihydrogen silicate ion(-1)	6.57E-10	6.57E-10	0	0	0	1.0270E-04
Bicarbonate ion(-1)	2.78E-14	2.78E-14	0	0	0	4.3493E-09
Hydrogen difluoride ion (-1)	1.87E-19	1.87E-19	0	0	0	2.9302E-14
Hydrogen hexafluorosilicate ion(	1.70E-46	1.70E-46	0	0	0	2.6639E-41
Bisulfate(VI) ion (-1)	7.68E-16	7.68E-16	0	0	0	1.2009E-10
Magnesium ion(+2)	4.62E-17	4.62E-17	0	0	0	7.2180E-12
Magnesium monofluoride ion(+1	5.69E-13	5.69E-13	0	0	0	8.9050E-08
Magnesium bicarbonate ion(+1)	1.16E-14	1.16E-14	0	0	0	1.8168E-09
Magnesium hydrogen metasilica	7.90E-11	7.90E-11	0	0	0	1.2355E-05
Magnesium hydroxide ion(+1)	2.20E-12	2.20E-12	0	0	0	3.4479E-07
Sodium ion(+1)	9.84E-05	9.84E-05	0	0	0	1.5382E+01
Disodium fluoride ion(+1)	5.62E-14	5.62E-14	0	0	0	8.7902E-09
Sodium carbonate ion(-1)	8.74E-14	8.74E-14	0	0	0	1.3672E-08
Sodium sulfate ion(-1)	7.91E-132	7.91E-132	0	0	0	1.2368E-126
Nitrate ion(-1)	2.62E-39	2.62E-39	0	0	0	4.0917E-34
Hydroxide ion(-1)	1.61E-10	1.61E-10	0	0	0	2.5258E-05
Hexafluorosilicon ion(-2)	4.80E-39	4.80E-39	0	0	0	7.5005E-34
Sulfate ion(-2)	3.91E-06	3.91E-06	0	0	0	6.1077E-01

Species Output (True Species)

Aqu NRG-6/175.6	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	4.35E-09
Bisulfate(VI) ion (-1)	1.20E-10
Bromide ion (-1)	5.74E+00
Calcium bicarbonate ion(+1)	1.34E-08
Calcium carbonate (calcite)	1.06E-09
Calcium chloride	4.48E-09
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	1.94E-04
Calcium hydroxide ion(+1)	1.30E-06
Calcium ion(+2)	8.80E+00
Calcium monochloride ion(+1)	1.95E-11
Calcium monofluoride ion(+1)	1.02E-05
Calcium mononitrate ion(+1)	1.64E+01
Calcium nitrate	0.00E+00
Calcium silicon dioxide dihydroxide	8.78E-10
Calcium sulfate	2.25E-07
Carbon dioxide	4.99E-10
Carbonate ion(-2)	7.85E-06
Chloride ion(-1)	4.24E+01
Dihydrogen hexafluorosilicate	1.78E-54
Dihydrogen orthosilicate ion(-2)	3.35E-07
Disodium fluoride ion(+1)	8.79E-09
Fluoride ion(-1)	6.08E-05
Hexafluorosilicon ion(-2)	7.50E-34
Hydrofluoride, dimer	5.09E-24
Hydrogen bromide	1.23E-17
Hydrogen chloride	9.30E-14
Hydrogen difluoride ion (-1)	2.93E-14
Hydrogen fluoride	1.66E-12
Hydrogen hexafluorosilicate ion(-1)	2.66E-41
Hydrogen ion(+1)	2.67E-38
Hydroxide ion(-1)	2.53E-05
Magnesium bicarbonate ion(+1)	1.82E-09
Magnesium carbonate	1.67E-11
Magnesium dihydrogen orthosilicate	4.39E-10
Magnesium hydrogen metasilicate ion(+	1.24E-05
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	3.45E-07
Magnesium ion(+2)	7.22E-12
Magnesium monofluoride ion(+1)	8.90E-08
Magnesium sulfate	6.63E-09
Nitrate ion(-1)	4.09E-34
Nitric acid	1.56E-12
Silicon dioxide (amorphous)	3.54E-05
Silicon tetrachloride	1.58E-66
Sodium bicarbonate	6.16E-12
Sodium bromide	3.21E-03

Sodium carbonate ion(-1)	1.37E-08
Sodium chloride	0.00E+00
Sodium fluoride	8.79E-10
Sodium hydrogen metasilicate	9.83E-08
Sodium ion(+1)	1.54E+01
Sodium nitrate	7.40E-03
Sodium sulfate ion(-1)	1.24E-126
Sulfate ion(-2)	6.11E-01
Sulfur trioxide	4.65E-34
Sulfuric(VI) acid	3.60E-31
Tetrafluorosilane	3.56E-35
Trihydrogen silicate ion(-1)	1.03E-04

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3265	7.21E-03	55.3193	0	0	5.5508E+01	7693.822
Calcium fluoride	1.67E-04	0	0	1.67E-04	0	0.0000E+00	
Calcium sulfate	3.42E-12	3.42E-12	0	0	0	2.6299E-08	
Carbon dioxide	1.06E-03	6.96E-12	1.06E-03	0	0	5.3581E-08	
Magnesium sulfate	1.26E-13	1.26E-13	0	0	0	9.7052E-10	
Sodium bromide	3.84E-05	3.84E-05	0	0	0	2.9528E-01	
Sodium chloride	1.60E-03	0	0	1.60E-03	0	0.0000E+00	
Sodium fluoride	2.48E-06	2.48E-06	0	0	0	1.9047E-02	
Sodium nitrate	1.07E-04	1.07E-04	0	0	0	8.2362E-01	
Silicon dioxide (amorphous)	7.57E-04	2.93E-07	0	7.56E-04	0	2.2558E-03	
Sulfur trioxide	1.42E-36	8.84E-39	1.41E-36	0	0	6.8011E-35	
Hydrofluoride, dimer	6.33E-21	8.26E-25	6.33E-21	0	0	6.3588E-21	
Calcium chloride	1.23E-18	1.23E-18	0	0	0	9.4329E-15	
Calcium carbonate (calcite)	4.39E-04	1.37E-10	0	4.39E-04	0	1.0530E-06	
Calcium silicon dioxide dihydrox	9.07E-11	9.07E-11	0	0	0	6.9774E-07	
Dihydrogen hexafluorosilicate	4.55E-55	4.55E-55	0	0	0	3.5004E-51	
Sulfuric(VI) acid	2.62E-31	6.84E-36	2.62E-31	0	0	5.2637E-32	
Hydrogen bromide	2.54E-14	7.54E-24	2.54E-14	0	0	5.8020E-20	
Hydrogen chloride	1.54E-11	6.20E-19	1.54E-11	0	0	4.7678E-15	
Hydrogen fluoride	3.01E-09	1.24E-14	3.01E-09	0	0	9.5783E-11	
Nitric acid	4.65E-12	1.47E-17	4.65E-12	0	0	1.1316E-13	
Magnesium hydroxide	1.73E-04	0	0	1.73E-04	0	0.0000E+00	
Magnesium carbonate	2.71E-12	2.71E-12	0	0	0	2.0855E-08	
Magnesium dihydrogen orthosili	5.69E-11	5.69E-11	0	0	0	4.3764E-07	
Sodium fluoride sulfate	8.02E-04	0	0	8.02E-04	0	0.0000E+00	
Sodium bicarbonate	1.94E-08	1.94E-08	0	0	0	1.4935E-04	
Sodium hydrogen metasilicate	2.47E-04	2.47E-04	0	0	0	1.9029E+00	
Silicon tetrachloride	7.80E-71	1.43E-84	7.80E-71	0	0	1.1027E-80	
Tetrafluorosilane	2.13E-31	7.25E-36	2.13E-31	0	0	5.5774E-32	
Bromide ion (-1)	1.24E-04	1.24E-04	0	0	0	9.5647E-01	
Calcium mononitrate ion(+1)	8.88E-10	8.88E-10	0	0	0	6.8303E-06	
Calcium ion(+2)	5.75E-11	5.75E-11	0	0	0	4.4214E-07	
Calcium monochloride ion(+1)	9.23E-11	9.23E-11	0	0	0	7.1037E-07	
Calcium monofluoride ion(+1)	1.74E-11	1.74E-11	0	0	0	1.3380E-07	
Calcium bicarbonate ion(+1)	3.82E-13	3.82E-13	0	0	0	2.9378E-09	
Calcium hydrogen silicate ion(+	2.92E-10	2.92E-10	0	0	0	2.2441E-06	
Calcium hydroxide ion(+1)	2.97E-11	2.97E-11	0	0	0	2.2841E-07	

Chloride ion(-1)	5.70E-04	5.70E-04	0	0	0	4.3817E+00
Carbonate ion(-2)	6.48E-06	6.48E-06	0	0	0	4.9840E-02
Fluoride ion(-1)	2.39E-06	2.39E-06	0	0	0	1.8418E-02
Hydrogen ion(+1)	5.07E-15	5.07E-15	0	0	0	3.9035E-11
Dihydrogen orthosilicate ion(-2)	5.84E-07	5.84E-07	0	0	0	4.4894E-03
Trihydrogen silicate ion(-1)	1.74E-05	1.74E-05	0	0	0	1.3384E-01
Bicarbonate ion(-1)	1.80E-07	1.80E-07	0	0	0	1.3823E-03
Hydrogen difluoride ion (-1)	6.22E-15	6.22E-15	0	0	0	4.7876E-11
Hydrogen hexafluorosilicate ion(	3.31E-43	3.31E-43	0	0	0	2.5497E-39
Bisulfate(VI) ion (-1)	1.13E-14	1.13E-14	0	0	0	8.6946E-11
Magnesium ion(+2)	2.40E-13	2.40E-13	0	0	0	1.8434E-09
Magnesium monofluoride ion(+1	1.91E-13	1.91E-13	0	0	0	1.4688E-09
Magnesium bicarbonate ion(+1)	8.18E-14	8.18E-14	0	0	0	6.2930E-10
Magnesium hydrogen metasilica	2.33E-11	2.33E-11	0	0	0	1.7905E-07
Magnesium hydroxide ion(+1)	9.97E-12	9.97E-12	0	0	0	7.6690E-08
Sodium ion(+1)	1.37E-03	1.37E-03	0	0	0	1.0572E+01
Disodium fluoride ion(+1)	7.11E-06	7.11E-06	0	0	0	5.4731E-02
Sodium carbonate ion(-1)	2.11E-06	2.11E-06	0	0	0	1.6201E-02
Sodium sulfate ion(-1)	1.06E-23	1.06E-23	0	0	0	8.1348E-20
Nitrate ion(-1)	6.51E-04	6.51E-04	0	0	0	5.0083E+00
Hydroxide ion(-1)	1.96E-07	1.96E-07	0	0	0	1.5055E-03
Hexafluorosilicon ion(-2)	3.83E-34	3.83E-34	0	0	0	2.9456E-30
Sulfate ion(-2)	1.46E-09	1.46E-09	0	0	0	1.1256E-05

Species Output (True Species)

Aqu NRG-6/219.9	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	1.38E-03
Bisulfate(VI) ion (-1)	8.69E-11
Bromide ion (-1)	9.56E-01
Calcium bicarbonate ion(+1)	2.94E-09
Calcium carbonate (calcite)	1.05E-06
Calcium chloride	9.43E-15
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	2.24E-06
Calcium hydroxide ion(+1)	2.28E-07
Calcium ion(+2)	4.42E-07
Calcium monochloride ion(+1)	7.10E-07
Calcium monofluoride ion(+1)	1.34E-07
Calcium mononitrate ion(+1)	6.83E-06
Calcium silicon dioxide dihydroxide	6.98E-07
Calcium sulfate	2.63E-08
Carbon dioxide	5.36E-08
Carbonate ion(-2)	4.98E-02
Chloride ion(-1)	4.38E+00
Dihydrogen hexafluorosilicate	3.50E-51
Dihydrogen orthosilicate ion(-2)	4.49E-03
Disodium fluoride ion(+1)	5.47E-02
Fluoride ion(-1)	1.84E-02
Hexafluorosilicon ion(-2)	2.95E-30
Hydrofluoride, dimer	6.36E-21
Hydrogen bromide	5.80E-20
Hydrogen chloride	4.77E-15
Hydrogen difluoride ion (-1)	4.79E-11
Hydrogen fluoride	9.58E-11
Hydrogen hexafluorosilicate ion(-1)	2.55E-39
Hydrogen ion(+1)	3.90E-11
Hydroxide ion(-1)	1.51E-03
Magnesium bicarbonate ion(+1)	6.29E-10
Magnesium carbonate	2.09E-08
Magnesium dihydrogen orthosilicate	4.38E-07
Magnesium hydrogen metasilicate ion	1.79E-07
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	7.67E-08
Magnesium ion(+2)	1.84E-09
Magnesium monofluoride ion(+1)	1.47E-09
Magnesium sulfate	9.71E-10
Nitrate ion(-1)	5.01E+00
Nitric acid	1.13E-13
Silicon dioxide (amorphous)	2.26E-03
Silicon tetrachloride	1.10E-80
Sodium bicarbonate	1.49E-04
Sodium bromide	2.95E-01
Sodium carbonate ion(-1)	1.62E-02

Sodium chloride	0.00E+00
Sodium fluoride	1.90E-02
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	1.90E+00
Sodium ion(+1)	1.06E+01
Sodium nitrate	8.24E-01
Sodium sulfate ion(-1)	8.13E-20
Sulfate ion(-2)	1.13E-05
Sulfur trioxide	6.80E-35
Sulfuric(VI) acid	5.26E-32
Tetrafluorosilane	5.58E-32
Trihydrogen silicate ion(-1)	1.34E-01

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3288	5.20E-03	55.3236	0	0	5.5508E+01	10670.2037
Calcium sulfate	4.66E-04	2.06E-08	0	4.66E-04	0	2.2017E-04	
Carbon dioxide	7.03E-04	3.19E-12	7.03E-04	0	0	3.4082E-08	
Magnesium carbonate	1.27E-12	1.27E-12	0	0	0	1.3574E-08	
Sodium bromide	4.04E-05	4.04E-05	0	0	0	4.3138E-01	
Sodium chloride	1.00E-03	0	0	1.00E-03	0	0.0000E+00	
Sodium fluoride	2.74E-08	2.74E-08	0	0	0	2.9282E-04	
Sodium nitrate	8.07E-05	8.07E-05	0	0	0	8.6069E-01	
Silicon dioxide (amorphous)	8.45E-04	2.02E-07	0	8.45E-04	0	2.1603E-03	
Sulfur trioxide	8.01E-33	3.54E-35	7.98E-33	0	0	3.7786E-31	
Hydrofluoride, dimer	4.20E-21	3.88E-25	4.20E-21	0	0	4.1386E-21	
Calcium chloride	3.53E-15	3.53E-15	0	0	0	3.7646E-11	
Calcium carbonate (calcite)	2.96E-04	9.68E-11	0	2.96E-04	0	1.0327E-06	
Calcium fluoride	5.73E-05	0	0	5.73E-05	0	0.0000E+00	
Calcium silicon dioxide dihydroxide	9.66E-11	9.66E-11	0	0	0	1.0311E-06	
Dihydrogen hexafluorosilicate	9.40E-56	9.40E-56	0	0	0	1.0034E-51	
Sulfuric(VI) acid	1.48E-27	2.74E-32	1.48E-27	0	0	2.9244E-28	
Hydrogen bromide	1.97E-12	4.13E-22	1.97E-12	0	0	4.4049E-18	
Hydrogen chloride	8.00E-10	2.28E-17	8.00E-10	0	0	2.4299E-13	
Hydrogen fluoride	2.45E-09	4.01E-15	2.45E-09	0	0	4.2780E-11	
Nitric acid	2.94E-10	6.63E-16	2.94E-10	0	0	7.0738E-12	
Magnesium hydroxide	2.02E-04	0	0	2.02E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	4.02E-11	4.02E-11	0	0	0	4.2921E-07	
Magnesium sulfate	5.05E-10	5.05E-10	0	0	0	5.3920E-06	
Sodium sulfate	7.31E-04	0	0	7.31E-04	0	0.0000E+00	
Sodium bicarbonate	1.75E-10	1.75E-10	0	0	0	1.8705E-06	
Sodium hydrogen metasilicate	3.37E-06	3.37E-06	0	0	0	3.5913E-02	
Silicon tetrachloride	5.69E-64	7.39E-78	5.69E-64	0	0	7.8870E-74	
Tetrafluorosilane	9.39E-32	2.26E-36	9.39E-32	0	0	2.4090E-32	
Bromide ion (-1)	1.22E-04	1.22E-04	0	0	0	1.3046E+00	
Calcium mononitrate ion(+1)	2.96E-06	2.96E-06	0	0	0	3.1569E-02	
Calcium ion(+2)	1.56E-07	1.56E-07	0	0	0	1.6614E-03	
Calcium monochloride ion(+1)	3.46E-07	3.46E-07	0	0	0	3.6916E-03	
Calcium monofluoride ion(+1)	8.30E-10	8.30E-10	0	0	0	8.8602E-06	
Calcium bicarbonate ion(+1)	1.43E-11	1.43E-11	0	0	0	1.5219E-07	
Calcium hydrogen silicate ion(+1)	1.73E-08	1.73E-08	0	0	0	1.8494E-04	
Calcium hydroxide ion(+1)	1.62E-09	1.62E-09	0	0	0	1.7245E-05	

Chloride ion(-1)	3.77E-04	3.77E-04	0	0	0	4.0266E+00
Carbonate ion(-2)	1.12E-09	1.12E-09	0	0	0	1.1926E-05
Fluoride ion(-1)	2.59E-08	2.59E-08	0	0	0	2.7606E-04
Hydrogen ion(+1)	1.92E-13	1.92E-13	0	0	0	2.0518E-09
Dihydrogen orthosilicate ion(-2)	1.49E-10	1.49E-10	0	0	0	1.5922E-06
Trihydrogen silicate ion(-1)	2.22E-07	2.22E-07	0	0	0	2.3673E-03
Bicarbonate ion(-1)	1.81E-09	1.81E-09	0	0	0	1.9270E-05
Hydrogen difluoride ion (-1)	5.27E-17	5.27E-17	0	0	0	5.6201E-13
Hydrogen hexafluorosilicate ion(-1)	1.32E-45	1.32E-45	0	0	0	1.4051E-41
Bisulfate(VI) ion (-1)	8.14E-13	8.14E-13	0	0	0	8.6806E-09
Magnesium ion(+2)	3.50E-10	3.50E-10	0	0	0	3.7344E-06
Magnesium monofluoride ion(+1)	6.04E-12	6.04E-12	0	0	0	6.4400E-08
Magnesium bicarbonate ion(+1)	2.30E-12	2.30E-12	0	0	0	2.4498E-08
Magnesium hydrogen metasilicate ion	9.18E-10	9.18E-10	0	0	0	9.7927E-06
Magnesium hydroxide ion(+1)	3.58E-10	3.58E-10	0	0	0	3.8190E-06
Sodium ion(+1)	1.06E-03	1.06E-03	0	0	0	1.1285E+01
Disodium fluoride ion(+1)	8.33E-08	8.33E-08	0	0	0	8.8860E-04
Sodium carbonate ion(-1)	3.68E-10	3.68E-10	0	0	0	3.9256E-06
Sodium sulfate ion(-1)	5.16E-22	5.16E-22	0	0	0	5.5013E-18
Nitrate ion(-1)	5.61E-04	5.61E-04	0	0	0	5.9912E+00
Hydroxide ion(-1)	2.67E-09	2.67E-09	0	0	0	2.8472E-05
Hexafluorosilicon ion(-2)	2.86E-38	2.86E-38	0	0	0	3.0559E-34
Sulfate ion(-2)	8.29E-10	8.29E-10	0	0	0	8.8447E-06

Species Output (True Species)

Aqu NRG-6/244.6	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	1.93E-05
Bisulfate(VI) ion (-1)	8.68E-09
Bromide ion (-1)	1.30E+00
Calcium bicarbonate ion(+1)	1.52E-07
Calcium carbonate (calcite)	1.03E-06
Calcium chloride	3.76E-11
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	1.85E-04
Calcium hydroxide ion(+1)	1.72E-05
Calcium ion(+2)	1.66E-03
Calcium monochloride ion(+1)	3.69E-03
Calcium monofluoride ion(+1)	8.86E-06
Calcium mononitrate ion(+1)	3.16E-02
Calcium silicon dioxide dihydroxide	1.03E-06
Calcium sulfate	2.20E-04
Carbon dioxide	3.41E-08
Carbonate ion(-2)	1.19E-05
Chloride ion(-1)	4.03E+00
Dihydrogen hexafluorosilicate	1.00E-51
Dihydrogen orthosilicate ion(-2)	1.59E-06
Disodium fluoride ion(+1)	8.89E-04
Fluoride ion(-1)	2.76E-04
Hexafluorosilicon ion(-2)	3.06E-34
Hydrofluoride, dimer	4.14E-21
Hydrogen bromide	4.40E-18
Hydrogen chloride	2.43E-13
Hydrogen difluoride ion (-1)	5.62E-13
Hydrogen fluoride	4.28E-11
Hydrogen hexafluorosilicate ion(-1)	1.41E-41
Hydrogen ion(+1)	2.05E-09
Hydroxide ion(-1)	2.85E-05
Magnesium bicarbonate ion(+1)	2.45E-08
Magnesium carbonate	1.36E-08
Magnesium dihydrogen orthosilicate	4.29E-07
Magnesium hydrogen metasilicate ion(	9.79E-06
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	3.82E-06
Magnesium ion(+2)	3.73E-06
Magnesium monofluoride ion(+1)	6.44E-08
Magnesium sulfate	5.39E-06
Nitrate ion(-1)	5.99E+00
Nitric acid	7.07E-12
Silicon dioxide (amorphous)	2.16E-03
Silicon tetrachloride	7.89E-74
Sodium bicarbonate	1.87E-06
Sodium bromide	4.31E-01
Sodium carbonate ion(-1)	3.93E-06

Sodium chloride	0.00E+00
Sodium fluoride	2.93E-04
Sodium hydrogen metasilicate	3.59E-02
Sodium ion(+1)	1.13E+01
Sodium nitrate	8.61E-01
Sodium sulfate	0.00E+00
Sodium sulfate ion(-1)	5.50E-18
Sulfate ion(-2)	8.84E-06
Sulfur trioxide	3.78E-31
Sulfuric(VI) acid	2.92E-28
Tetrafluorosilane	2.41E-32
Trihydrogen silicate ion(-1)	2.37E-03

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3244	4.80E-03	55.3196	0	0	5.5508E+01	11558.0265
Calcium carbonate (calcite)	3.57E-15	3.57E-15	0	0	0	4.1280E-11	
Calcium sulfate	4.39E-03	1.89E-08	0	4.39E-03	0	2.1858E-04	
Carbon dioxide	1.00E-03	4.15E-12	1.00E-03	0	0	4.8018E-08	
Magnesium sulfate-0.5-(magnesium h	1.96E-04	0	0	1.96E-04	0	0.0000E+00	
Magnesium carbonate	1.66E-12	1.66E-12	0	0	0	1.9158E-08	
Sodium bromide	4.07E-05	4.07E-05	0	0	0	4.7044E-01	
Sodium chloride	2.90E-03	0	0	2.90E-03	0	0.0000E+00	
Sodium fluoride	6.07E-10	6.07E-10	0	0	0	7.0195E-06	
Sodium nitrate	7.41E-05	7.41E-05	0	0	0	8.5602E-01	
Silicon dioxide (amorphous)	1.13E-03	1.85E-07	0	1.13E-03	0	2.1408E-03	
Sulfur trioxide	2.83E-28	1.15E-30	2.82E-28	0	0	1.3245E-26	
Hydrofluoride, dimer	8.65E-20	7.32E-24	8.65E-20	0	0	8.4578E-20	
Calcium chloride	3.23E-15	3.23E-15	0	0	0	3.7375E-11	
Calcium silicon dioxide dihydroxide	2.51E-15	2.51E-15	0	0	0	2.8994E-11	
Dihydrogen hexafluorosilicate	7.52E-52	7.52E-52	0	0	0	8.6887E-48	
Sulfuric(VI) acid	5.24E-23	8.87E-28	5.24E-23	0	0	1.0251E-23	
Hydrogen bromide	4.06E-10	7.81E-20	4.06E-10	0	0	9.0263E-16	
Hydrogen chloride	1.50E-07	3.92E-15	1.50E-07	0	0	4.5330E-11	
Hydrogen fluoride	1.11E-08	2.06E-14	1.11E-08	0	0	2.3772E-10	
Nitric acid	5.44E-08	1.12E-13	5.44E-08	0	0	1.2981E-09	
Magnesium hydroxide	4.02E-04	0	0	4.02E-04	0	0.0000E+00	
Magnesium fluoride	5.74E-05	0	0	5.74E-05	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	3.69E-11	3.69E-11	0	0	0	4.2612E-07	
Magnesium sulfate	1.64E-05	1.64E-05	0	0	0	1.8901E-01	
Sodium sulfate	4.14E-03	0	0	4.14E-03	0	0.0000E+00	
Sodium bicarbonate	1.22E-12	1.22E-12	0	0	0	1.4050E-08	
Sodium hydrogen metasilicate	1.64E-08	1.64E-08	0	0	0	1.8975E-04	
Silicon tetrachloride	7.09E-55	8.45E-69	7.09E-55	0	0	9.7612E-65	
Tetrafluorosilane	3.98E-29	8.77E-34	3.98E-29	0	0	1.0134E-29	
Bromide ion (-1)	1.22E-04	1.22E-04	0	0	0	1.4100E+00	
Calcium mononitrate ion(+1)	2.70E-06	2.70E-06	0	0	0	3.1206E-02	
Calcium ion(+2)	1.34E-07	1.34E-07	0	0	0	1.5455E-03	
Calcium monochloride ion(+1)	2.65E-07	2.65E-07	0	0	0	3.0573E-03	
Calcium monofluoride ion(+1)	1.79E-11	1.79E-11	0	0	0	2.0660E-07	
Calcium bicarbonate ion(+1)	1.03E-13	1.03E-13	0	0	0	1.1962E-09	
Calcium hydrogen silicate ion(+1)	8.23E-11	8.23E-11	0	0	0	9.5075E-07	

Calcium hydroxide ion(+1)	7.88E-12	7.88E-12	0	0	0	9.1127E-08
Chloride ion(-1)	3.46E-04	3.46E-04	0	0	0	3.9993E+00
Carbonate ion(-2)	4.25E-14	4.25E-14	0	0	0	4.9116E-10
Fluoride ion(-1)	6.24E-10	6.24E-10	0	0	0	7.2158E-06
Hydrogen ion(+1)	3.19E-11	3.19E-11	0	0	0	3.6865E-07
Dihydrogen orthosilicate ion(-2)	3.98E-15	3.98E-15	0	0	0	4.6057E-11
Trihydrogen silicate ion(-1)	1.10E-09	1.10E-09	0	0	0	1.2709E-05
Bicarbonate ion(-1)	1.19E-11	1.19E-11	0	0	0	1.3798E-07
Hydrogen difluoride ion (-1)	5.84E-18	5.84E-18	0	0	0	6.7454E-14
Hydrogen hexafluorosilicate ion(-1)	5.83E-44	5.83E-44	0	0	0	6.7328E-40
Bisulfate(VI) ion (-1)	1.42E-10	1.42E-10	0	0	0	1.6458E-06
Magnesium ion(+2)	1.17E-05	1.17E-05	0	0	0	1.3559E-01
Magnesium monofluoride ion(+1)	4.59E-09	4.59E-09	0	0	0	5.3019E-05
Magnesium bicarbonate ion(+1)	5.48E-10	5.48E-10	0	0	0	6.3291E-06
Magnesium hydrogen metasilicate ior	1.54E-07	1.54E-07	0	0	0	1.7774E-03
Magnesium hydroxide ion(+1)	6.16E-08	6.16E-08	0	0	0	7.1251E-04
Sodium ion(+1)	9.29E-04	9.29E-04	0	0	0	1.0735E+01
Disodium fluoride ion(+1)	1.79E-09	1.79E-09	0	0	0	2.0719E-05
Sodium carbonate ion(-1)	1.41E-14	1.41E-14	0	0	0	1.6318E-10
Sodium sulfate ion(-1)	6.69E-22	6.69E-22	0	0	0	7.7265E-18
Nitrate ion(-1)	4.88E-04	4.88E-04	0	0	0	5.6363E+00
Hydroxide ion(-1)	1.39E-11	1.39E-11	0	0	0	1.6089E-07
Hexafluorosilicon ion(-2)	7.17E-39	7.17E-39	0	0	0	8.2815E-35
Sulfate ion(-2)	1.14E-09	1.14E-09	0	0	0	1.3220E-05

Species Output (True Species)

Aqu NRG-6/255.9	**Aqueous**
Species	**mol/kg**
Water	55.508
Bicarbonate ion(-1)	1.38E-07
Bisulfate(VI) ion (-1)	1.65E-06
Bromide ion (-1)	1.41E+00
Calcium bicarbonate ion(+1)	1.20E-09
Calcium carbonate (calcite)	4.13E-11
Calcium chloride	3.74E-11
Calcium hydrogen silicate ion(+1)	9.51E-07
Calcium hydroxide ion(+1)	9.11E-08
Calcium ion(+2)	1.55E-03
Calcium monochloride ion(+1)	3.06E-03
Calcium monofluoride ion(+1)	2.07E-07
Calcium mononitrate ion(+1)	3.12E-02
Calcium silicon dioxide dihydroxide	2.90E-11
Calcium sulfate	2.19E-04
Carbon dioxide	4.80E-08
Carbonate ion(-2)	4.91E-10
Chloride ion(-1)	4.00E+00
Dihydrogen hexafluorosilicate	8.69E-48
Dihydrogen orthosilicate ion(-2)	4.61E-11
Disodium fluoride ion(+1)	2.07E-05
Fluoride ion(-1)	7.22E-06
Hexafluorosilicon ion(-2)	8.28E-35
Hydrofluoride, dimer	8.46E-20
Hydrogen bromide	9.03E-16
Hydrogen chloride	4.53E-11
Hydrogen difluoride ion (-1)	6.75E-14
Hydrogen fluoride	2.38E-10
Hydrogen hexafluorosilicate ion(-1)	6.73E-40
Hydrogen ion(+1)	3.69E-07
Hydroxide ion(-1)	1.61E-07
Magnesium bicarbonate ion(+1)	6.33E-06
Magnesium carbonate	1.92E-08
Magnesium dihydrogen orthosilicate	4.26E-07
Magnesium fluoride	0.00E+00
Magnesium hydrogen metasilicate ion(+1)	1.78E-03
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	7.13E-04
Magnesium ion(+2)	1.36E-01
Magnesium monofluoride ion(+1)	5.30E-05
Magnesium sulfate	1.89E-01
Magnesium sulfate-0.5-(magnesium hydroxide)	0.00E+00
Nitrate ion(-1)	5.64E+00
Nitric acid	1.30E-09
Silicon dioxide (amorphous)	2.14E-03
Silicon tetrachloride	9.76E-65
Sodium bicarbonate	1.40E-08
Sodium bromide	4.70E-01

mol/kg H2O

Sodium carbonate ion(-1)	1.63E-10
Sodium chloride	0.00E+00
Sodium fluoride	7.02E-06
Sodium hydrogen metasilicate	1.90E-04
Sodium ion(+1)	1.07E+01
Sodium nitrate	8.56E-01
Sodium sulfate	0.00E+00
Sodium sulfate ion(-1)	7.73E-18
Sulfate ion(-2)	1.32E-05
Sulfur trioxide	1.32E-26
Sulfuric(VI) acid	1.03E-23
Tetrafluorosilane	1.01E-29
Trihydrogen silicate ion(-1)	1.27E-05

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3308	2.07E-03	55.3287	0	0	5.5508E+01	26829.198
Calcium carbonate (calcite)	4.23E-05	3.25E-11	0	4.23E-05	0	8.7195E-07	
Calcium sulfate	2.30E-14	2.30E-14	0	0	0	6.1828E-10	
Carbon dioxide	1.01E-03	1.66E-12	1.01E-03	0	0	4.4562E-08	
Potassium chloride	3.86E-06	3.86E-06	0	0	0	1.0350E-01	
Sodium carbonate	7.96E-04	0	0	7.96E-04	0	0.0000E+00	
Sodium bromide	2.46E-05	2.46E-05	0	0	0	6.6002E-01	
Sodium fluoride	1.93E-06	1.93E-06	0	0	0	5.1702E-02	
Silicon dioxide (amorphous)	4.83E-08	4.83E-08	0	0	0	1.2948E-03	
Hydrofluoride, dimer	6.03E-21	1.87E-25	6.03E-21	0	0	5.0183E-21	
Calcium chloride	1.62E-20	1.62E-20	0	0	0	4.3498E-16	
Calcium fluoride	3.26E-05	0	0	3.26E-05	0	0.0000E+00	
Calcium silicon dioxide dihydr	1.47E-11	1.47E-11	0	0	0	3.9406E-07	
Dihydrogen hexafluorosilicate	6.08E-56	6.08E-56	0	0	0	1.6308E-51	
Sulfuric(VI) acid	7.09E-33	4.40E-38	7.09E-33	0	0	1.1793E-33	
Hydrogen bromide	2.04E-14	1.44E-24	2.04E-14	0	0	3.8623E-20	
Hydrogen chloride	3.55E-12	3.39E-20	3.55E-12	0	0	9.0953E-16	
Hydrogen fluoride	2.94E-09	4.89E-14	2.94E-09	0	0	1.3117E-09	
Nitric acid	4.47E-14	2.97E-20	4.47E-14	0	0	7.9565E-16	
Potassium bisulfate(VI)	1.51E-17	1.51E-17	0	0	0	4.0384E-13	
Sodium fluoride sulfate	3.95E-05	0	0	3.95E-05	0	0.0000E+00	
Sodium bicarbonate	1.48E-08	1.48E-08	0	0	0	3.9577E-04	
Sodium hydrogen metasilicate	1.28E-04	1.28E-04	0	0	0	3.4392E+00	
Sodium nitrate	7.71E-06	7.71E-06	0	0	0	2.0680E-01	
Silicon tetrachloride	1.43E-73	6.23E-88	1.43E-73	0	0	1.6715E-83	
Tetrafluorosilane	1.26E-31	1.02E-36	1.26E-31	0	0	2.7265E-32	
Sulfur trioxide	3.82E-38	5.68E-41	3.81E-38	0	0	1.5238E-36	
Bromide ion (-1)	1.38E-04	1.38E-04	0	0	0	3.7050E+00	
Calcium mononitrate ion(+1)	1.30E-12	1.30E-12	0	0	0	3.4758E-08	
Calcium ion(+2)	3.00E-13	3.00E-13	0	0	0	8.0561E-09	
Calcium monochloride ion(+1	7.36E-13	7.36E-13	0	0	0	1.9737E-08	
Calcium monofluoride ion(+1)	1.46E-12	1.46E-12	0	0	0	3.9267E-08	
Calcium bicarbonate ion(+1)	5.06E-14	5.06E-14	0	0	0	1.3567E-09	
Calcium hydrogen silicate ion	1.56E-11	1.56E-11	0	0	0	4.1896E-07	
Calcium hydroxide ion(+1)	2.79E-12	2.79E-12	0	0	0	7.4768E-08	
Chloride ion(-1)	1.94E-04	1.94E-04	0	0	0	5.1938E+00	
Carbonate ion(-2)	1.31E-05	1.31E-05	0	0	0	3.5183E-01	

Fluoride ion(-1)	1.77E-06	1.77E-06	0	0	0	4.7469E-02
Hydrogen ion(+1)	1.85E-16	1.85E-16	0	0	0	4.9523E-12
Dihydrogen orthosilicate ion(-	1.96E-06	1.96E-06	0	0	0	5.2509E-02
Trihydrogen silicate ion(-1)	1.96E-05	1.96E-05	0	0	0	5.2568E-01
Bicarbonate ion(-1)	1.31E-07	1.31E-07	0	0	0	3.5180E-03
Hydrogen difluoride ion (-1)	6.06E-15	6.06E-15	0	0	0	1.6261E-10
Hydrogen hexafluorosilicate ic	1.88E-43	1.88E-43	0	0	0	5.0499E-39
Bisulfate(VI) ion (-1)	3.13E-16	3.13E-16	0	0	0	8.3841E-12
Potassium ion(+1)	1.69E-04	1.69E-04	0	0	0	4.5339E+00
Potassium sulfate(VI) ion(-1)	1.07E-06	1.07E-06	0	0	0	2.8754E-02
Sodium ion(+1)	2.26E-04	2.26E-04	0	0	0	6.0749E+00
Disodium fluoride ion(+1)	6.46E-06	6.46E-06	0	0	0	1.7324E-01
Sodium carbonate ion(-1)	6.69E-06	6.69E-06	0	0	0	1.7941E-01
Sodium sulfate ion(-1)	1.97E-28	1.97E-28	0	0	0	5.2831E-24
Nitrate ion(-1)	8.42E-06	8.42E-06	0	0	0	2.2589E-01
Hydroxide ion(-1)	1.70E-07	1.70E-07	0	0	0	4.5704E-03
Hexafluorosilicon ion(-2)	7.96E-34	7.96E-34	0	0	0	2.1362E-29
Sulfate ion(-2)	1.11E-06	1.11E-06	0	0	0	2.9664E-02
					0	

Species Output (True Species)

Aq NRG-7a/460.25	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	3.52E-03
Bisulfate(VI) ion (-1)	8.38E-12
Bromide ion (-1)	3.70E+00
Calcium bicarbonate ion(+1)	1.36E-09
Calcium carbonate (calcite)	8.72E-07
Calcium chloride	4.35E-16
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	4.19E-07
Calcium hydroxide ion(+1)	7.48E-08
Calcium ion(+2)	8.06E-09
Calcium monochloride ion(+1)	1.97E-08
Calcium monofluoride ion(+1)	3.93E-08
Calcium mononitrate ion(+1)	3.48E-08
Calcium silicon dioxide dihydroxide	3.94E-07
Calcium sulfate	6.18E-10
Carbon dioxide	4.46E-08
Carbonate ion(-2)	3.52E-01
Chloride ion(-1)	5.19E+00
Dihydrogen hexafluorosilicate	1.63E-51
Dihydrogen orthosilicate ion(-2)	5.25E-02
Disodium fluoride ion(+1)	1.73E-01
Fluoride ion(-1)	4.75E-02
Hexafluorosilicon ion(-2)	2.14E-29
Hydrofluoride, dimer	5.02E-21
Hydrogen bromide	3.86E-20
Hydrogen chloride	9.10E-16
Hydrogen difluoride ion (-1)	1.63E-10
Hydrogen fluoride	1.31E-09
Hydrogen hexafluorosilicate ion(-1)	5.05E-39
Hydrogen ion(+1)	4.95E-12
Hydroxide ion(-1)	4.57E-03
Nitrate ion(-1)	2.26E-01
Nitric acid	7.96E-16
Potassium bisulfate(VI)	4.04E-13
Potassium chloride	1.04E-01
Potassium ion(+1)	4.53E+00
Potassium sulfate(VI) ion(-1)	2.88E-02
Silicon dioxide (amorphous)	1.29E-03
Silicon tetrachloride	1.67E-83
Sodium bicarbonate	3.96E-04
Sodium bromide	6.60E-01
Sodium carbonate	0.00E+00
Sodium carbonate ion(-1)	1.79E-01
Sodium fluoride	5.17E-02
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	3.44E+00
Sodium ion(+1)	6.07E+00

Sodium nitrate	2.07E-01
Sodium sulfate ion(-1)	5.28E-24
Sulfate ion(-2)	2.97E-02
Sulfur trioxide	1.52E-36
Sulfuric(VI) acid	1.18E-33
Tetrafluorosilane	2.73E-32
Trihydrogen silicate ion(-1)	5.26E-01

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3277	4.74E-03	55.323	0	0	5.5508E+01	11707.5105
Calcium carbonate (calcite)	3.99E-04	8.11E-11	0	3.99E-04	0	9.4946E-07	
Magnesium sulfate	2.22E-15	2.22E-15	0	0	0	2.6031E-11	
Sodium carbonate	3.35E-04	0	0	3.35E-04	0	0.0000E+00	
Sodium bromide	3.29E-05	3.29E-05	0	0	0	3.8489E-01	
Sodium chloride	1.20E-03	0	0	1.20E-03	0	0.0000E+00	
Sodium fluoride	3.16E-06	3.16E-06	0	0	0	3.6977E-02	
Sodium nitrate	4.39E-05	4.39E-05	0	0	0	5.1421E-01	
Silicon dioxide (amorphous)	8.20E-04	1.78E-07	0	8.19E-04	0	2.0879E-03	
Sulfur trioxide	4.20E-38	1.56E-40	4.19E-38	0	0	1.8242E-36	
Hydrofluoride, dimer	1.88E-21	1.45E-25	1.88E-21	0	0	1.7022E-21	
Hexasodium carbonate bissulfate	2.37E-04	0	0	2.37E-04	0	0.0000E+00	
Calcium chloride	6.76E-20	6.76E-20	0	0	0	7.9158E-16	
Calcium silicon dioxide dihydroxide	7.81E-11	7.81E-11	0	0	0	9.1427E-07	
Calcium sulfate	8.76E-14	8.76E-14	0	0	0	1.0250E-09	
Carbon dioxide	7.29E-04	2.91E-12	7.29E-04	0	0	3.4043E-08	
Dihydrogen hexafluorosilicate	7.05E-57	7.05E-57	0	0	0	8.2576E-53	
Sulfuric(VI) acid	7.79E-33	1.21E-37	7.79E-33	0	0	1.4118E-33	
Hydrogen bromide	9.29E-15	1.63E-24	9.29E-15	0	0	1.9139E-20	
Hydrogen chloride	3.89E-12	9.29E-20	3.89E-12	0	0	1.0880E-15	
Hydrogen fluoride	1.64E-09	4.27E-14	1.64E-09	0	0	4.9973E-10	
Nitric acid	2.64E-13	4.65E-19	2.64E-13	0	0	5.4488E-15	
Magnesium hydroxide	8.23E-06	0	0	8.23E-06	0	0.0000E+00	
Magnesium carbonate	1.11E-12	1.11E-12	0	0	0	1.2941E-08	
Magnesium dihydrogen orthosilicate	3.37E-11	3.37E-11	0	0	0	3.9463E-07	
Sodium fluoride sulfate	9.76E-05	0	0	9.76E-05	0	0.0000E+00	
Sodium bicarbonate	3.13E-08	3.13E-08	0	0	0	3.6620E-04	
Sodium hydrogen metasilicate	5.79E-04	5.79E-04	0	0	0	6.7805E+00	
Silicon tetrachloride	3.20E-73	3.48E-87	3.20E-73	0	0	4.0781E-83	
Tetrafluorosilane	1.88E-32	3.79E-37	1.88E-32	0	0	4.4321E-33	
Bromide ion (-1)	1.30E-04	1.30E-04	0	0	0	1.5199E+00	
Calcium mononitrate ion(+1)	2.05E-11	2.05E-11	0	0	0	2.4010E-07	
Calcium ion(+2)	2.54E-12	2.54E-12	0	0	0	2.9734E-08	
Calcium monochloride ion(+1)	3.66E-12	3.66E-12	0	0	0	4.2865E-08	
Calcium monofluoride ion(+1)	2.41E-12	2.41E-12	0	0	0	2.8181E-08	
Calcium bicarbonate ion(+1)	7.52E-14	7.52E-14	0	0	0	8.8014E-10	
Calcium hydrogen silicate ion(+1)	7.01E-11	7.01E-11	0	0	0	8.2034E-07	

Calcium hydroxide ion(+1)	9.64E-12	9.64E-12	0	0	0	1.1288E-07
Chloride ion(-1)	4.06E-04	4.06E-04	0	0	0	4.7476E+00
Carbonate ion(-2)	3.79E-05	3.79E-05	0	0	0	4.4355E-01
Fluoride ion(-1)	3.36E-06	3.36E-06	0	0	0	3.9370E-02
Hydrogen ion(+1)	7.04E-16	7.04E-16	0	0	0	8.2464E-12
Dihydrogen orthosilicate ion(-2)	5.30E-06	5.30E-06	0	0	0	6.2089E-02
Trihydrogen silicate ion(-1)	4.89E-05	4.89E-05	0	0	0	5.7296E-01
Bicarbonate ion(-1)	2.51E-07	2.51E-07	0	0	0	2.9373E-03
Hydrogen difluoride ion (-1)	5.20E-15	5.20E-15	0	0	0	6.0844E-11
Hydrogen hexafluorosilicate ion(-1)	2.08E-44	2.08E-44	0	0	0	2.4317E-40
Bisulfate(VI) ion (-1)	9.46E-16	9.46E-16	0	0	0	1.1072E-11
Magnesium ion(+2)	2.66E-14	2.66E-14	0	0	0	3.1125E-10
Magnesium monofluoride ion(+1)	1.82E-14	1.82E-14	0	0	0	2.1357E-10
Magnesium bicarbonate ion(+1)	6.94E-15	6.94E-15	0	0	0	8.1199E-11
Magnesium hydrogen metasilicate ion(+	3.85E-12	3.85E-12	0	0	0	4.5041E-08
Magnesium hydroxide ion(+1)	2.31E-12	2.31E-12	0	0	0	2.7028E-08
Sodium ion(+1)	7.65E-04	7.65E-04	0	0	0	8.9597E+00
Disodium fluoride ion(+1)	1.06E-05	1.06E-05	0	0	0	1.2426E-01
Sodium carbonate ion(-1)	1.36E-05	1.36E-05	0	0	0	1.5890E-01
Sodium sulfate ion(-1)	5.40E-26	5.40E-26	0	0	0	6.3239E-22
Nitrate ion(-1)	8.67E-05	8.67E-05	0	0	0	1.0152E+00
Hydroxide ion(-1)	5.45E-07	5.45E-07	0	0	0	6.3828E-03
Hexafluorosilicon ion(-2)	9.10E-35	9.10E-35	0	0	0	1.0657E-30
Sulfate ion(-2)	4.06E-07	4.06E-07	0	0	0	4.7496E-03

Species Output (True Species)

Aq SD-12/495.5	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	2.94E-03
Bisulfate(VI) ion (-1)	1.11E-11
Bromide ion (-1)	1.52E+00
Calcium bicarbonate ion(+1)	8.80E-10
Calcium carbonate (calcite)	9.49E-07
Calcium chloride	7.92E-16
Calcium hydrogen silicate ion(+1)	8.20E-07
Calcium hydroxide ion(+1)	1.13E-07
Calcium ion(+2)	2.97E-08
Calcium monochloride ion(+1)	4.29E-08
Calcium monofluoride ion(+1)	2.82E-08
Calcium mononitrate ion(+1)	2.40E-07
Calcium silicon dioxide dihydroxide	9.14E-07
Calcium sulfate	1.03E-09
Carbon dioxide	3.40E-08
Carbonate ion(-2)	4.44E-01
Chloride ion(-1)	4.75E+00
Dihydrogen hexafluorosilicate	8.26E-53
Dihydrogen orthosilicate ion(-2)	6.21E-02
Disodium fluoride ion(+1)	1.24E-01
Fluoride ion(-1)	3.94E-02
Hexafluorosilicon ion(-2)	1.07E-30
Hexasodium carbonate bissulfate	0.00E+00
Hydrofluoride, dimer	1.70E-21
Hydrogen bromide	1.91E-20
Hydrogen chloride	1.09E-15
Hydrogen difluoride ion (-1)	6.08E-11
Hydrogen fluoride	5.00E-10
Hydrogen hexafluorosilicate ion(-1)	2.43E-40
Hydrogen ion(+1)	8.25E-12
Hydroxide ion(-1)	6.38E-03
Magnesium bicarbonate ion(+1)	8.12E-11
Magnesium carbonate	1.29E-08
Magnesium dihydrogen orthosilicate	3.95E-07
Magnesium hydrogen metasilicate ion(	4.50E-08
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	2.70E-08
Magnesium ion(+2)	3.11E-10
Magnesium monofluoride ion(+1)	2.14E-10
Magnesium sulfate	2.60E-11
Nitrate ion(-1)	1.02E+00
Nitric acid	5.45E-15
Silicon dioxide (amorphous)	2.09E-03
Silicon tetrachloride	4.08E-83
Sodium bicarbonate	3.66E-04
Sodium bromide	3.85E-01
Sodium carbonate	0.00E+00

Sodium carbonate ion(-1)	1.59E-01
Sodium chloride	0.00E+00
Sodium fluoride	3.70E-02
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	6.78E+00
Sodium ion(+1)	8.96E+00
Sodium nitrate	5.14E-01
Sodium sulfate ion(-1)	6.32E-22
Sulfate ion(-2)	4.75E-03
Sulfur trioxide	1.82E-36
Sulfuric(VI) acid	1.41E-33
Tetrafluorosilane	4.43E-33
Trihydrogen silicate ion(-1)	5.73E-01

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3286	3.13E-03	55.3254	0	0	5.5508E+01	17731.4095
Calcium carbonate (calcite)	1.01E-03	4.32E-12	0	1.01E-03	0	7.6684E-08	
Calcium sulfate	4.68E-05	9.22E-10	0	4.68E-05	0	1.6349E-05	
Carbon dioxide	1.66E-03	6.19E-13	1.66E-03	0	0	1.0975E-08	
Magnesium carbonate	1.35E-13	1.35E-13	0	0	0	2.3850E-09	
Sodium chloride	9.00E-04	0	0	9.00E-04	0	0.0000E+00	
Sodium fluoride	1.13E-12	1.13E-12	0	0	0	2.0008E-08	
Silicon dioxide (amorphous)	1.20E-03	4.67E-08	0	1.20E-03	0	8.2817E-04	
Hydrofluoride, dimer	9.94E-21	4.10E-26	9.94E-21	0	0	7.2717E-22	
Calcium chloride	1.86E-10	1.86E-10	0	0	0	3.3019E-06	
Calcium fluoride	5.74E-05	0	0	5.74E-05	0	0.0000E+00	
Calcium silicon dioxide dihydroxide	1.83E-12	1.83E-12	0	0	0	3.2361E-08	
Dihydrogen hexafluorosilicate	5.57E-56	5.57E-56	0	0	0	9.8700E-52	
Sulfuric(VI) acid	3.51E-27	2.90E-33	3.51E-27	0	0	5.1383E-29	
Hydrogen bromide	6.18E-09	5.80E-20	6.18E-09	0	0	1.0277E-15	
Hydrogen chloride	1.34E-06	1.70E-15	1.34E-06	0	0	3.0165E-11	
Hydrogen fluoride	3.77E-09	9.55E-15	3.77E-09	0	0	1.6925E-10	
Nitric acid	7.61E-10	6.45E-17	7.61E-10	0	0	1.1435E-12	
Magnesium hydroxide	3.29E-04	0	0	3.29E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	1.80E-12	1.80E-12	0	0	0	3.1873E-08	
Magnesium sulfate	5.34E-11	5.34E-11	0	0	0	9.4742E-07	
Sodium bromide	3.40E-06	3.40E-06	0	0	0	6.0203E-02	
Sodium bicarbonate	1.11E-14	1.11E-14	0	0	0	1.9659E-10	
Sodium hydrogen metasilicate	9.00E-11	9.00E-11	0	0	0	1.5952E-06	
Sodium nitrate	5.35E-09	5.35E-09	0	0	0	9.4822E-05	
Silicon tetrachloride	4.44E-51	2.58E-66	4.44E-51	0	0	4.5742E-62	
Tetrafluorosilane	5.25E-31	5.65E-37	5.25E-31	0	0	1.0015E-32	
Sulfur trioxide	1.89E-32	3.74E-36	1.89E-32	0	0	6.6391E-32	
Bromide ion (-1)	1.59E-04	1.59E-04	0	0	0	2.8245E+00	
Calcium mononitrate ion(+1)	2.90E-04	2.90E-04	0	0	0	5.1473E+00	
Calcium ion(+2)	4.61E-04	4.61E-04	0	0	0	8.1814E+00	
Calcium monochloride ion(+1)	3.49E-05	3.49E-05	0	0	0	6.1948E-01	
Calcium monofluoride ion(+1)	2.58E-08	2.58E-08	0	0	0	4.5666E-04	
Calcium bicarbonate ion(+1)	3.56E-09	3.56E-09	0	0	0	6.3191E-05	
Calcium hydrogen silicate ion(+1)	3.50E-07	3.50E-07	0	0	0	6.1983E-03	
Calcium hydroxide ion(+1)	3.36E-08	3.36E-08	0	0	0	5.9522E-04	
Chloride ion(-1)	7.56E-04	7.56E-04	0	0	0	1.3404E+01	

Carbonate ion(-2)	1.56E-13	1.56E-13	0	0	0	2.7727E-09
Fluoride ion(-1)	1.31E-09	1.31E-09	0	0	0	2.3157E-05
Hydrogen ion(+1)	2.40E-14	2.40E-14	0	0	0	4.2483E-10
Dihydrogen orthosilicate ion(-2)	6.61E-15	6.61E-15	0	0	0	1.1718E-10
Trihydrogen silicate ion(-1)	2.68E-10	2.68E-10	0	0	0	4.7604E-06
Bicarbonate ion(-1)	6.90E-13	6.90E-13	0	0	0	1.2238E-08
Hydrogen difluoride ion (-1)	1.51E-19	1.51E-19	0	0	0	2.6799E-15
Hydrogen hexafluorosilicate ion(-1)	1.67E-46	1.67E-46	0	0	0	2.9567E-42
Bisulfate(VI) ion (-1)	1.59E-15	1.59E-15	0	0	0	2.8155E-11
Magnesium ion(+2)	2.30E-07	2.30E-07	0	0	0	4.0802E-03
Magnesium monofluoride ion(+1)	4.43E-10	4.43E-10	0	0	0	7.8535E-06
Magnesium bicarbonate ion(+1)	1.41E-10	1.41E-10	0	0	0	2.5085E-06
Magnesium hydrogen metasilicate ion(+	4.38E-08	4.38E-08	0	0	0	7.7656E-04
Magnesium hydroxide ion(+1)	1.76E-08	1.76E-08	0	0	0	3.1189E-04
Sodium ion(+1)	9.91E-06	9.91E-06	0	0	0	1.7573E-01
Disodium fluoride ion(+1)	2.19E-12	2.19E-12	0	0	0	3.8774E-08
Sodium carbonate ion(-1)	4.98E-15	4.98E-15	0	0	0	8.8244E-11
Sodium sulfate ion(-1)	2.45E-64	2.45E-64	0	0	0	4.3486E-60
Nitrate ion(-1)	1.97E-43	1.97E-43	0	0	0	3.4998E-39
Hydroxide ion(-1)	1.89E-10	1.89E-10	0	0	0	3.3529E-06
Hexafluorosilicon ion(-2)	1.65E-40	1.65E-40	0	0	0	2.9212E-36
Sulfate ion(-2)	1.72E-04	1.72E-04	0	0	0	3.0465E+00

Species Output (True Species)

Aqu SD-12/296.1	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	1.22E-08
Bisulfate(VI) ion (-1)	2.82E-11
Bromide ion (-1)	2.82E+00
Calcium bicarbonate ion(+1)	6.32E-05
Calcium carbonate (calcite)	7.67E-08
Calcium chloride	3.30E-06
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	6.20E-03
Calcium hydroxide ion(+1)	5.95E-04
Calcium ion(+2)	8.18E+00
Calcium monochloride ion(+1)	6.19E-01
Calcium monofluoride ion(+1)	4.57E-04
Calcium mononitrate ion(+1)	5.15E+00
Calcium silicon dioxide dihydroxide	3.24E-08
Calcium sulfate	1.63E-05
Carbon dioxide	1.10E-08
Carbonate ion(-2)	2.77E-09
Chloride ion(-1)	1.34E+01
Dihydrogen hexafluorosilicate	9.87E-52
Dihydrogen orthosilicate ion(-2)	1.17E-10
Disodium fluoride ion(+1)	3.88E-08
Fluoride ion(-1)	2.32E-05
Hexafluorosilicon ion(-2)	2.92E-36
Hydrofluoride, dimer	7.27E-22
Hydrogen bromide	1.03E-15
Hydrogen chloride	3.02E-11
Hydrogen difluoride ion (-1)	2.68E-15
Hydrogen fluoride	1.69E-10
Hydrogen hexafluorosilicate ion(-1)	2.96E-42
Hydrogen ion(+1)	4.25E-10
Hydroxide ion(-1)	3.35E-06
Magnesium bicarbonate ion(+1)	2.51E-06
Magnesium carbonate	2.38E-09
Magnesium dihydrogen orthosilicate	3.19E-08
Magnesium hydrogen metasilicate ion(+1	7.77E-04
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	3.12E-04
Magnesium ion(+2)	4.08E-03
Magnesium monofluoride ion(+1)	7.85E-06
Magnesium sulfate	9.47E-07
Nitrate ion(-1)	3.50E-39
Nitric acid	1.14E-12
Silicon dioxide (amorphous)	8.28E-04
Silicon tetrachloride	4.57E-62
Sodium bicarbonate	1.97E-10
Sodium bromide	6.02E-02
Sodium carbonate ion(-1)	8.82E-11

Sodium chloride	0.00E+00
Sodium fluoride	2.00E-08
Sodium hydrogen metasilicate	1.60E-06
Sodium ion(+1)	1.76E-01
Sodium nitrate	9.48E-05
Sodium sulfate ion(-1)	4.35E-60
Sulfate ion(-2)	3.05E+00
Sulfur trioxide	6.64E-32
Sulfuric(VI) acid	5.14E-29
Tetrafluorosilane	1.00E-32
Trihydrogen silicate ion(-1)	4.76E-06

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3259	2.77E-03	55.3232	0	0	5.5508E+01	20068.7663
Calcium carbonate (calcite)	1.64E-03	4.12E-11	0	1.64E-03	0	8.2767E-07	
Calcium sulfate	4.45E-14	4.45E-14	0	0	0	8.9356E-10	
Carbon dioxide	2.37E-03	5.26E-12	2.37E-03	0	0	1.0562E-07	
Potassium chloride	5.27E-06	5.27E-06	0	0	0	1.0577E-01	
Magnesium carbonate	1.83E-12	1.83E-12	0	0	0	3.6680E-08	
Sodium carbonate	2.09E-04	0	0	2.09E-04	0	0.0000E+00	
Sodium chloride	2.47E-03	0	0	2.47E-03	0	0.0000E+00	
Sodium fluoride	1.61E-06	1.61E-06	0	0	0	3.2234E-02	
Sodium nitrate	1.28E-05	1.28E-05	0	0	0	2.5695E-01	
Silicon dioxide (amorphous)	7.18E-04	1.01E-07	0	7.18E-04	0	2.0203E-03	
Hydrofluoride, dimer	6.11E-21	2.40E-25	6.11E-21	0	0	4.8243E-21	
Hexasodium carbonate bissulf	9.11E-05	0	0	9.11E-05	0	0.0000E+00	
Calcium chloride	3.44E-20	3.44E-20	0	0	0	6.9004E-16	
Calcium silicon dioxide dihydrc	1.22E-11	1.22E-11	0	0	0	2.4512E-07	
Dihydrogen hexafluorosilicate	1.23E-55	1.23E-55	0	0	0	2.4742E-51	
Sulfuric(VI) acid	2.53E-32	1.99E-37	2.53E-32	0	0	4.0015E-33	
Hydrogen bromide	2.53E-14	2.26E-24	2.53E-14	0	0	4.5425E-20	
Hydrogen chloride	7.02E-12	8.52E-20	7.02E-12	0	0	1.7101E-15	
Hydrogen fluoride	2.96E-09	5.89E-14	2.96E-09	0	0	1.1812E-09	
Nitric acid	1.08E-13	9.20E-20	1.08E-13	0	0	1.8462E-15	
Potassium bisulfate(VI)	3.71E-17	3.71E-17	0	0	0	7.4476E-13	
Magnesium hydroxide	1.07E-04	0	0	1.07E-04	0	0.0000E+00	
Magnesium dihydrogen orthos	1.71E-11	1.71E-11	0	0	0	3.4401E-07	
Magnesium sulfate	3.68E-15	3.68E-15	0	0	0	7.3783E-11	
Sodium bromide	2.52E-05	2.52E-05	0	0	0	5.0662E-01	
Sodium fluoride sulfate	1.06E-04	0	0	1.06E-04	0	0.0000E+00	
Sodium bicarbonate	2.87E-08	2.87E-08	0	0	0	5.7561E-04	
Sodium hydrogen metasilicate	1.63E-04	1.63E-04	0	0	0	3.2780E+00	
Silicon tetrachloride	3.38E-72	1.87E-86	3.38E-72	0	0	3.7582E-82	
Tetrafluorosilane	1.99E-31	2.04E-36	1.99E-31	0	0	4.0844E-32	
Sulfur trioxide	1.36E-37	2.58E-40	1.36E-37	0	0	5.1704E-36	
Bromide ion (-1)	1.37E-04	1.37E-04	0	0	0	2.7585E+00	
Calcium mononitrate ion(+1)	2.84E-12	2.84E-12	0	0	0	5.6921E-08	
Calcium ion(+2)	6.00E-13	6.00E-13	0	0	0	1.2047E-08	
Calcium monochloride ion(+1)	1.17E-12	1.17E-12	0	0	0	2.3469E-08	
Calcium monofluoride ion(+1)	1.35E-12	1.35E-12	0	0	0	2.7123E-08	

Calcium bicarbonate ion(+1)	9.18E-14	9.18E-14	0	0	0	1.8422E-09
Calcium hydrogen silicate ion(	2.22E-11	2.22E-11	0	0	0	4.4476E-07
Calcium hydroxide ion(+1)	2.54E-12	2.54E-12	0	0	0	5.1000E-08
Chloride ion(-1)	3.06E-04	3.06E-04	0	0	0	6.1475E+00
Carbonate ion(-2)	1.66E-05	1.66E-05	0	0	0	3.3381E-01
Fluoride ion(-1)	1.51E-06	1.51E-06	0	0	0	3.0388E-02
Hydrogen ion(+1)	4.29E-16	4.29E-16	0	0	0	8.6129E-12
Dihydrogen orthosilicate ion(-2	1.50E-06	1.50E-06	0	0	0	3.0062E-02
Trihydrogen silicate ion(-1)	2.37E-05	2.37E-05	0	0	0	4.7652E-01
Bicarbonate ion(-1)	2.18E-07	2.18E-07	0	0	0	4.3738E-03
Hydrogen difluoride ion (-1)	5.07E-15	5.07E-15	0	0	0	1.0178E-10
Hydrogen hexafluorosilicate io	2.50E-43	2.50E-43	0	0	0	5.0130E-39
Bisulfate(VI) ion (-1)	9.23E-16	9.23E-16	0	0	0	1.8521E-11
Potassium ion(+1)	2.05E-04	2.05E-04	0	0	0	4.1181E+00
Potassium sulfate(VI) ion(-1)	1.81E-06	1.81E-06	0	0	0	3.6391E-02
Magnesium ion(+2)	1.22E-14	1.22E-14	0	0	0	2.4496E-10
Magnesium monofluoride ion(	3.32E-14	3.32E-14	0	0	0	6.6724E-10
Magnesium bicarbonate ion(+	2.16E-14	2.16E-14	0	0	0	4.3334E-10
Magnesium hydrogen metasili	3.96E-12	3.96E-12	0	0	0	7.9401E-08
Magnesium hydroxide ion(+1)	1.95E-12	1.95E-12	0	0	0	3.9189E-08
Sodium ion(+1)	3.25E-04	3.25E-04	0	0	0	6.5174E+00
Disodium fluoride ion(+1)	5.95E-06	5.95E-06	0	0	0	1.1940E-01
Sodium carbonate ion(-1)	8.59E-06	8.59E-06	0	0	0	1.7241E-01
Sodium sulfate ion(-1)	5.01E-32	5.01E-32	0	0	0	1.0059E-27
Nitrate ion(-1)	1.62E-05	1.62E-05	0	0	0	3.2565E-01
Hydroxide ion(-1)	1.36E-07	1.36E-07	0	0	0	2.7386E-03
Hexafluorosilicon ion(-2)	6.52E-34	6.52E-34	0	0	0	1.3084E-29
Sulfate ion(-2)	1.81E-06	1.81E-06	0	0	0	3.6368E-02

Species Output (True Species)

Aqu SD-6/1509.9	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	4.37E-03
Bisulfate(VI) ion (-1)	1.85E-11
Bromide ion (-1)	2.76E+00
Calcium bicarbonate ion(+1)	1.84E-09
Calcium carbonate (calcite)	8.28E-07
Calcium chloride	6.90E-16
Calcium hydrogen silicate ion(+1)	4.45E-07
Calcium hydroxide ion(+1)	5.10E-08
Calcium ion(+2)	1.20E-08
Calcium monochloride ion(+1)	2.35E-08
Calcium monofluoride ion(+1)	2.71E-08
Calcium mononitrate ion(+1)	5.69E-08
Calcium silicon dioxide dihydroxide	2.45E-07
Calcium sulfate	8.94E-10
Carbon dioxide	1.06E-07
Carbonate ion(-2)	3.34E-01
Chloride ion(-1)	6.15E+00
Dihydrogen hexafluorosilicate	2.47E-51
Dihydrogen orthosilicate ion(-2)	3.01E-02
Disodium fluoride ion(+1)	1.19E-01
Fluoride ion(-1)	3.04E-02
Hexafluorosilicon ion(-2)	1.31E-29
Hexasodium carbonate bissulfate	0.00E+00
Hydrofluoride, dimer	4.82E-21
Hydrogen bromide	4.54E-20
Hydrogen chloride	1.71E-15
Hydrogen difluoride ion (-1)	1.02E-10
Hydrogen fluoride	1.18E-09
Hydrogen hexafluorosilicate ion(-1)	5.01E-39
Hydrogen ion(+1)	8.61E-12
Hydroxide ion(-1)	2.74E-03
Magnesium bicarbonate ion(+1)	4.33E-10
Magnesium carbonate	3.67E-08
Magnesium dihydrogen orthosilicate	3.44E-07
Magnesium hydrogen metasilicate ion(+	7.94E-08
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	3.92E-08
Magnesium ion(+2)	2.45E-10
Magnesium monofluoride ion(+1)	6.67E-10
Magnesium sulfate	7.38E-11
Nitrate ion(-1)	3.26E-01
Nitric acid	1.85E-15
Potassium bisulfate(VI)	7.45E-13
Potassium chloride	1.06E-01
Potassium ion(+1)	4.12E+00
Potassium sulfate(VI) ion(-1)	3.64E-02
Silicon dioxide (amorphous)	2.02E-03

Silicon tetrachloride	3.76E-82
Sodium bicarbonate	5.76E-04
Sodium bromide	5.07E-01
Sodium carbonate	0.00E+00
Sodium carbonate ion(-1)	1.72E-01
Sodium chloride	0.00E+00
Sodium fluoride	3.22E-02
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	3.28E+00
Sodium ion(+1)	6.52E+00
Sodium nitrate	2.57E-01
Sodium sulfate ion(-1)	1.01E-27
Sulfate ion(-2)	3.64E-02
Sulfur trioxide	5.17E-36
Sulfuric(VI) acid	4.00E-33
Tetrafluorosilane	4.08E-32
Trihydrogen silicate ion(-1)	4.77E-01

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3278	9.13E-03	55.3186	0	0	5.5508E+01	6078.585
Calcium carbonate (calcite)	5.15E-04	1.70E-10	0	5.15E-04	0	1.0324E-06	
Calcium sulfate	5.50E-04	3.62E-08	0	5.50E-04	0	2.2010E-04	
Carbon dioxide	1.43E-03	1.18E-11	1.43E-03	0	0	7.1550E-08	
Potassium chloride	2.58E-06	2.58E-06	0	0	0	1.5653E-02	
Magnesium sulfate	1.80E-09	1.80E-09	0	0	0	1.0963E-05	
Sodium chloride	5.83E-04	0	0	5.83E-04	0	0.0000E+00	
Sodium nitrate	1.40E-04	1.40E-04	0	0	0	8.5267E-01	
Silicon dioxide (amorphous)	6.90E-04	3.67E-07	0	6.90E-04	0	2.2326E-03	
Hydrofluoride, dimer	8.54E-21	1.38E-24	8.54E-21	0	0	8.4144E-21	
Calcium chloride	2.44E-14	2.44E-14	0	0	0	1.4842E-10	
Calcium fluoride	5.73E-05	0	0	5.73E-05	0	0.0000E+00	
Calcium silicon dioxide dihydroxid	8.34E-11	8.34E-11	0	0	0	5.0685E-07	
Dihydrogen hexafluorosilicate	1.39E-54	1.39E-54	0	0	0	8.4378E-51	
Sulfuric(VI) acid	3.02E-27	9.78E-32	3.02E-27	0	0	5.9457E-28	
Hydrogen bromide	2.95E-12	1.09E-21	2.95E-12	0	0	6.5989E-18	
Hydrogen chloride	2.26E-09	1.13E-16	2.26E-09	0	0	6.8796E-13	
Hydrogen fluoride	3.50E-09	6.56E-15	3.50E-09	0	0	3.9875E-11	
Nitric acid	8.01E-10	3.16E-15	8.01E-10	0	0	1.9235E-11	
Potassium bisulfate(VI)	6.70E-15	6.70E-15	0	0	0	4.0708E-11	
Magnesium hydroxide	4.65E-04	0	0	4.65E-04	0	0.0000E+00	
Magnesium carbonate	4.54E-12	4.54E-12	0	0	0	2.7598E-08	
Magnesium dihydrogen orthosilica	7.06E-11	7.06E-11	0	0	0	4.2909E-07	
Sodium bromide	3.75E-05	3.75E-05	0	0	0	2.2819E-01	
Sodium fluoride	2.43E-08	2.43E-08	0	0	0	1.4741E-04	
Sodium bicarbonate	2.21E-10	2.21E-10	0	0	0	1.3428E-06	
Sodium hydrogen metasilicate	2.09E-06	2.09E-06	0	0	0	1.2677E-02	
Silicon tetrachloride	3.66E-62	8.34E-76	3.66E-62	0	0	5.0720E-72	
Tetrafluorosilane	3.88E-31	1.64E-35	3.88E-31	0	0	9.9612E-32	
Sulfur trioxide	1.63E-32	1.26E-34	1.62E-32	0	0	7.6824E-31	
Bromide ion (-1)	1.25E-04	1.25E-04	0	0	0	7.6077E-01	
Calcium mononitrate ion(+1)	1.71E-05	1.71E-05	0	0	0	1.0415E-01	
Calcium ion(+2)	1.24E-06	1.24E-06	0	0	0	7.5078E-03	
Calcium monochloride ion(+1)	1.88E-06	1.88E-06	0	0	0	1.1452E-02	
Calcium monofluoride ion(+1)	2.70E-09	2.70E-09	0	0	0	1.6416E-05	
Calcium bicarbonate ion(+1)	6.65E-11	6.65E-11	0	0	0	4.0410E-07	
Calcium hydrogen silicate ion(+1)	3.95E-08	3.95E-08	0	0	0	2.4032E-04	

Calcium hydroxide ion(+1)	3.49E-09	3.49E-09	0	0	0	2.1219E-05
Chloride ion(-1)	7.44E-04	7.44E-04	0	0	0	4.5225E+00
Carbonate ion(-2)	5.32E-10	5.32E-10	0	0	0	3.2318E-06
Fluoride ion(-1)	2.30E-08	2.30E-08	0	0	0	1.3974E-04
Hydrogen ion(+1)	9.30E-13	9.30E-13	0	0	0	5.6554E-09
Dihydrogen orthosilicate ion(-2)	4.17E-11	4.17E-11	0	0	0	2.5364E-07
Trihydrogen silicate ion(-1)	1.59E-07	1.59E-07	0	0	0	9.6950E-04
Bicarbonate ion(-1)	2.28E-09	2.28E-09	0	0	0	1.3831E-05
Hydrogen difluoride ion (-1)	6.88E-17	6.88E-17	0	0	0	4.1820E-13
Hydrogen hexafluorosilicate ion(-1	7.47E-45	7.47E-45	0	0	0	4.5385E-41
Bisulfate(VI) ion (-1)	1.05E-12	1.05E-12	0	0	0	6.4063E-09
Potassium ion(+1)	1.62E-04	1.62E-04	0	0	0	9.8727E-01
Potassium sulfate(VI) ion(-1)	1.25E-06	1.25E-06	0	0	0	7.6266E-03
Magnesium ion(+2)	3.68E-09	3.68E-09	0	0	0	2.2346E-05
Magnesium monofluoride ion(+1)	3.99E-11	3.99E-11	0	0	0	2.4267E-07
Magnesium bicarbonate ion(+1)	2.06E-11	2.06E-11	0	0	0	1.2537E-07
Magnesium hydrogen metasilicate	4.26E-09	4.26E-09	0	0	0	2.5879E-05
Magnesium hydroxide ion(+1)	1.57E-09	1.57E-09	0	0	0	9.5569E-06
Sodium ion(+1)	1.79E-03	1.79E-03	0	0	0	1.0883E+01
Disodium fluoride ion(+1)	6.87E-08	6.87E-08	0	0	0	4.1747E-04
Sodium carbonate ion(-1)	1.78E-10	1.78E-10	0	0	0	1.0825E-06
Sodium sulfate ion(-1)	2.97E-24	2.97E-24	0	0	0	1.8033E-20
Nitrate ion(-1)	1.10E-03	1.10E-03	0	0	0	6.7094E+00
Hydroxide ion(-1)	1.72E-09	1.72E-09	0	0	0	1.0456E-05
Hexafluorosilicon ion(-2)	6.31E-38	6.31E-38	0	0	0	3.8343E-34
Sulfate ion(-2)	2.52E-10	2.52E-10	0	0	0	1.5336E-06

Species Output (True Species)

Aqu SD-6/412.2	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	1.38E-05
Bisulfate(VI) ion (-1)	6.41E-09
Bromide ion (-1)	7.61E-01
Calcium bicarbonate ion(+1)	4.04E-07
Calcium carbonate (calcite)	1.03E-06
Calcium chloride	1.48E-10
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	2.40E-04
Calcium hydroxide ion(+1)	2.12E-05
Calcium ion(+2)	7.51E-03
Calcium monochloride ion(+1)	1.15E-02
Calcium monofluoride ion(+1)	1.64E-05
Calcium mononitrate ion(+1)	1.04E-01
Calcium silicon dioxide dihydroxide	5.07E-07
Calcium sulfate	2.20E-04
Carbon dioxide	7.15E-08
Carbonate ion(-2)	3.23E-06
Chloride ion(-1)	4.52E+00
Dihydrogen hexafluorosilicate	8.44E-51
Dihydrogen orthosilicate ion(-2)	2.54E-07
Disodium fluoride ion(+1)	4.17E-04
Fluoride ion(-1)	1.40E-04
Hexafluorosilicon ion(-2)	3.83E-34
Hydrofluoride, dimer	8.41E-21
Hydrogen bromide	6.60E-18
Hydrogen chloride	6.88E-13
Hydrogen difluoride ion (-1)	4.18E-13
Hydrogen fluoride	3.99E-11
Hydrogen hexafluorosilicate ion(-1)	4.54E-41
Hydrogen ion(+1)	5.66E-09
Hydroxide ion(-1)	1.05E-05
Magnesium bicarbonate ion(+1)	1.25E-07
Magnesium carbonate	2.76E-08
Magnesium dihydrogen orthosilicate	4.29E-07
Magnesium hydrogen metasilicate ion(+1)	2.59E-05
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	9.56E-06
Magnesium ion(+2)	2.23E-05
Magnesium monofluoride ion(+1)	2.43E-07
Magnesium sulfate	1.10E-05
Nitrate ion(-1)	6.71E+00
Nitric acid	1.92E-11
Potassium bisulfate(VI)	4.07E-11
Potassium chloride	1.57E-02
Potassium ion(+1)	9.87E-01
Potassium sulfate(VI) ion(-1)	7.63E-03
Silicon dioxide (amorphous)	2.23E-03

Silicon tetrachloride	5.07E-72
Sodium bicarbonate	1.34E-06
Sodium bromide	2.28E-01
Sodium carbonate ion(-1)	1.08E-06
Sodium chloride	0.00E+00
Sodium fluoride	1.47E-04
Sodium hydrogen metasilicate	1.27E-02
Sodium ion(+1)	1.09E+01
Sodium nitrate	8.53E-01
Sodium sulfate ion(-1)	1.80E-20
Sulfate ion(-2)	1.53E-06
Sulfur trioxide	7.68E-31
Sulfuric(VI) acid	5.95E-28
Tetrafluorosilane	9.96E-32
Trihydrogen silicate ion(-1)	9.69E-04

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.327	9.84E-03	55.3172	0	0	5.5508E+01	5642.594
Calcium carbonate (calcite)	3.60E-04	1.84E-10	0	3.60E-04	0	1.0368E-06	
Calcium sulfate	7.79E-04	3.92E-08	0	7.79E-04	0	2.2105E-04	
Carbon dioxide	1.31E-03	1.15E-11	1.31E-03	0	0	6.4947E-08	
Magnesium carbonate	4.50E-12	4.50E-12	0	0	0	2.5418E-08	
Sodium bromide	3.90E-05	3.90E-05	0	0	0	2.1985E-01	
Sodium chloride	5.70E-04	0	0	5.70E-04	0	0.0000E+00	
Sodium fluoride	5.21E-08	5.21E-08	0	0	0	2.9399E-04	
Sodium nitrate	1.54E-04	1.54E-04	0	0	0	8.6730E-01	
Silicon dioxide (amorphous)	1.40E-03	3.91E-07	0	1.40E-03	0	2.2087E-03	
Hydrofluoride, dimer	7.83E-21	1.37E-24	7.83E-21	0	0	7.7498E-21	
Calcium chloride	6.70E-15	6.70E-15	0	0	0	3.7797E-11	
Calcium fluoride	5.72E-05	0	0	5.72E-05	0	0.0000E+00	
Calcium silicon dioxide dihydroxide	9.84E-11	9.84E-11	0	0	0	5.5506E-07	
Dihydrogen hexafluorosilicate	1.16E-54	1.16E-54	0	0	0	6.5360E-51	
Sulfuric(VI) acid	2.77E-27	9.71E-32	2.77E-27	0	0	5.4761E-28	
Hydrogen bromide	1.36E-12	5.43E-22	1.36E-12	0	0	3.0658E-18	
Hydrogen chloride	1.09E-09	5.90E-17	1.09E-09	0	0	3.3318E-13	
Hydrogen fluoride	3.35E-09	5.96E-15	3.35E-09	0	0	3.3636E-11	
Nitric acid	4.13E-10	1.77E-15	4.13E-10	0	0	9.9886E-12	
Potassium chloride	1.50E-06	1.50E-06	0	0	0	8.4795E-03	
Potassium bisulfate(VI)	7.43E-15	7.43E-15	0	0	0	4.1939E-11	
Magnesium hydroxide	4.81E-04	0	0	4.81E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilicat	7.64E-11	7.64E-11	0	0	0	4.3093E-07	
Magnesium sulfate	1.79E-09	1.79E-09	0	0	0	1.0097E-05	
Sodium sulfate	2.38E-04	0	0	2.38E-04	0	0.0000E+00	
Sodium bicarbonate	4.55E-10	4.55E-10	0	0	0	2.5647E-06	
Sodium hydrogen metasilicate	4.68E-06	4.68E-06	0	0	0	2.6401E-02	
Silicon tetrachloride	1.98E-63	4.88E-77	1.98E-63	0	0	2.7546E-73	
Tetrafluorosilane	3.26E-31	1.49E-35	3.26E-31	0	0	8.4137E-32	
Sulfur trioxide	1.50E-32	1.25E-34	1.49E-32	0	0	7.0756E-31	
Bromide ion (-1)	1.24E-04	1.24E-04	0	0	0	6.9818E-01	
Calcium mononitrate ion(+1)	4.93E-06	4.93E-06	0	0	0	2.7812E-02	
Calcium ion(+2)	3.63E-07	3.63E-07	0	0	0	2.0468E-03	
Calcium monochloride ion(+1)	5.93E-07	5.93E-07	0	0	0	3.3449E-03	
Calcium monofluoride ion(+1)	1.48E-09	1.48E-09	0	0	0	8.3614E-06	
Calcium bicarbonate ion(+1)	3.36E-11	3.36E-11	0	0	0	1.8987E-07	

Calcium hydrogen silicate ion(+1)	2.26E-08	2.26E-08	0	0	0	1.2780E-04
Calcium hydroxide ion(+1)	2.01E-09	2.01E-09	0	0	0	1.1347E-05
Chloride ion(-1)	7.62E-04	7.62E-04	0	0	0	4.2975E+00
Carbonate ion(-2)	2.32E-09	2.32E-09	0	0	0	1.3071E-05
Fluoride ion(-1)	4.97E-08	4.97E-08	0	0	0	2.8061E-04
Hydrogen ion(+1)	5.13E-13	5.13E-13	0	0	0	2.8934E-09
Dihydrogen orthosilicate ion(-2)	1.82E-10	1.82E-10	0	0	0	1.0270E-06
Trihydrogen silicate ion(-1)	3.34E-07	3.34E-07	0	0	0	1.8828E-03
Bicarbonate ion(-1)	4.88E-09	4.88E-09	0	0	0	2.7513E-05
Hydrogen difluoride ion (-1)	1.39E-16	1.39E-16	0	0	0	7.8270E-13
Hydrogen hexafluorosilicate ion(-1)	1.27E-44	1.27E-44	0	0	0	7.1676E-41
Bisulfate(VI) ion (-1)	2.14E-12	2.14E-12	0	0	0	1.2095E-08
Potassium ion(+1)	9.78E-05	9.78E-05	0	0	0	5.5196E-01
Potassium sulfate(VI) ion(-1)	2.98E-06	2.98E-06	0	0	0	1.6834E-02
Magnesium ion(+2)	1.02E-09	1.02E-09	0	0	0	5.7685E-06
Magnesium monofluoride ion(+1)	2.01E-11	2.01E-11	0	0	0	1.1335E-07
Magnesium bicarbonate ion(+1)	1.02E-11	1.02E-11	0	0	0	5.7500E-08
Magnesium hydrogen metasilicate	2.24E-09	2.24E-09	0	0	0	1.2622E-05
Magnesium hydroxide ion(+1)	8.31E-10	8.31E-10	0	0	0	4.6867E-06
Sodium ion(+1)	2.01E-03	2.01E-03	0	0	0	1.1358E+01
Disodium fluoride ion(+1)	1.49E-07	1.49E-07	0	0	0	8.3857E-04
Sodium carbonate ion(-1)	7.47E-10	7.47E-10	0	0	0	4.2151E-06
Sodium sulfate ion(-1)	9.65E-23	9.65E-23	0	0	0	5.4472E-19
Nitrate ion(-1)	1.23E-03	1.23E-03	0	0	0	6.9311E+00
Hydroxide ion(-1)	3.89E-09	3.89E-09	0	0	0	2.1943E-05
Hexafluorosilicon ion(-2)	2.18E-37	2.18E-37	0	0	0	1.2306E-33
Sulfate ion(-2)	7.08E-10	7.08E-10	0	0	0	3.9955E-06

Species Output (True Species)

Aqu SD-6/443.5	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	2.75E-05
Bisulfate(VI) ion (-1)	1.21E-08
Bromide ion (-1)	6.98E-01
Calcium bicarbonate ion(+1)	1.90E-07
Calcium carbonate (calcite)	1.04E-06
Calcium chloride	3.78E-11
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	1.28E-04
Calcium hydroxide ion(+1)	1.13E-05
Calcium ion(+2)	2.05E-03
Calcium monochloride ion(+1)	3.34E-03
Calcium monofluoride ion(+1)	8.36E-06
Calcium mononitrate ion(+1)	2.78E-02
Calcium silicon dioxide dihydroxide	5.55E-07
Calcium sulfate	2.21E-04
Carbon dioxide	6.49E-08
Carbonate ion(-2)	1.31E-05
Chloride ion(-1)	4.30E+00
Dihydrogen hexafluorosilicate	6.54E-51
Dihydrogen orthosilicate ion(-2)	1.03E-06
Disodium fluoride ion(+1)	8.39E-04
Fluoride ion(-1)	2.81E-04
Hexafluorosilicon ion(-2)	1.23E-33
Hydrofluoride, dimer	7.75E-21
Hydrogen bromide	3.07E-18
Hydrogen chloride	3.33E-13
Hydrogen difluoride ion (-1)	7.83E-13
Hydrogen fluoride	3.36E-11
Hydrogen hexafluorosilicate ion(-1)	7.17E-41
Hydrogen ion(+1)	2.89E-09
Hydroxide ion(-1)	2.19E-05
Magnesium bicarbonate ion(+1)	5.75E-08
Magnesium carbonate	2.54E-08
Magnesium dihydrogen orthosilicate	4.31E-07
Magnesium hydrogen metasilicate ion(+1)	1.26E-05
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	4.69E-06
Magnesium ion(+2)	5.77E-06
Magnesium monofluoride ion(+1)	1.13E-07
Magnesium sulfate	1.01E-05
Nitrate ion(-1)	6.93E+00
Nitric acid	9.99E-12
Potassium bisulfate(VI)	4.19E-11
Potassium chloride	8.48E-03
Potassium ion(+1)	5.52E-01
Potassium sulfate(VI) ion(-1)	1.68E-02
Silicon dioxide (amorphous)	2.21E-03

Silicon tetrachloride	2.75E-73
Sodium bicarbonate	2.56E-06
Sodium bromide	2.20E-01
Sodium carbonate ion(-1)	4.22E-06
Sodium chloride	0.00E+00
Sodium fluoride	2.94E-04
Sodium hydrogen metasilicate	2.64E-02
Sodium ion(+1)	1.14E+01
Sodium nitrate	8.67E-01
Sodium sulfate	0.00E+00
Sodium sulfate ion(-1)	5.45E-19
Sulfate ion(-2)	4.00E-06
Sulfur trioxide	7.08E-31
Sulfuric(VI) acid	5.48E-28
Tetrafluorosilane	8.41E-32
Trihydrogen silicate ion(-1)	1.88E-03

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3281	4.61E-03	55.3235	0	0	5.5508E+01	12037.804
Calcium carbonate (calcite)	1.17E-04	7.85E-11	0	1.17E-04	0	9.4547E-07	
Calcium sulfate	7.08E-04	1.67E-08	0	7.08E-04	0	2.0158E-04	
Carbon dioxide	1.11E-03	5.56E-12	1.11E-03	0	0	6.6947E-08	
Potassium chloride	1.27E-06	1.27E-06	0	0	0	1.5317E-02	
Magnesium carbonate	1.63E-12	1.63E-12	0	0	0	1.9661E-08	
Sodium chloride	1.34E-03	0	0	1.34E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	9.73E-04	2.25E-07	0	9.73E-04	0	2.7134E-03	
Hydrofluoride, dimer	6.65E-21	4.98E-25	6.64E-21	0	0	5.9946E-21	
Calcium chloride	4.56E-13	4.56E-13	0	0	0	5.4922E-09	
Calcium fluoride	5.74E-05	0	0	5.74E-05	0	0.0000E+00	
Calcium silicon dioxide dihydroxi	4.96E-11	4.96E-11	0	0	0	5.9673E-07	
Dihydrogen hexafluorosilicate	3.02E-55	3.02E-55	0	0	0	3.6376E-51	
Sulfuric(VI) acid	2.35E-27	3.52E-32	2.35E-27	0	0	4.2359E-28	
Hydrogen bromide	1.80E-11	3.06E-21	1.80E-11	0	0	3.6834E-17	
Hydrogen chloride	1.27E-08	2.93E-16	1.27E-08	0	0	3.5323E-12	
Hydrogen fluoride	3.09E-09	1.04E-14	3.09E-09	0	0	1.2513E-10	
Nitric acid	6.36E-09	1.17E-14	6.36E-09	0	0	1.4120E-10	
Potassium bisulfate(VI)	4.59E-16	4.59E-16	0	0	0	5.5272E-12	
Magnesium hydroxide	5.06E-04	0	0	5.06E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilic	3.26E-11	3.26E-11	0	0	0	3.9297E-07	
Magnesium sulfate	6.49E-10	6.49E-10	0	0	0	7.8101E-06	
Sodium bromide	1.89E-05	1.89E-05	0	0	0	2.2720E-01	
Sodium fluoride	1.76E-09	1.76E-09	0	0	0	2.1239E-05	
Sodium bicarbonate	1.42E-11	1.42E-11	0	0	0	1.7064E-07	
Sodium hydrogen metasilicate	1.72E-07	1.72E-07	0	0	0	2.0709E-03	
Sodium nitrate	7.53E-05	7.53E-05	0	0	0	9.0622E-01	
Silicon tetrachloride	3.62E-59	3.81E-73	3.62E-59	0	0	4.5890E-69	
Tetrafluorosilane	2.35E-31	4.59E-36	2.35E-31	0	0	5.5204E-32	
Sulfur trioxide	1.27E-32	4.55E-35	1.26E-32	0	0	5.4731E-31	
Bromide ion (-1)	1.44E-04	1.44E-04	0	0	0	1.7313E+00	
Calcium mononitrate ion(+1)	6.43E-04	6.43E-04	0	0	0	7.7437E+00	
Calcium ion(+2)	4.15E-06	4.15E-06	0	0	0	4.9953E-02	
Calcium monochloride ion(+1)	2.38E-06	2.38E-06	0	0	0	2.8660E-02	
Calcium monofluoride ion(+1)	8.39E-09	8.39E-09	0	0	0	1.0094E-04	
Calcium bicarbonate ion(+1)	2.22E-10	2.22E-10	0	0	0	2.6688E-06	
Calcium hydrogen silicate ion(+1	1.39E-07	1.39E-07	0	0	0	1.6755E-03	

Calcium hydroxide ion(+1)	9.92E-09	9.92E-09	0	0	0	1.1937E-04
Chloride ion(-1)	7.26E-04	7.26E-04	0	0	0	8.7427E+00
Carbonate ion(-2)	8.41E-12	8.41E-12	0	0	0	1.0129E-07
Fluoride ion(-1)	2.86E-09	2.86E-09	0	0	0	3.4398E-05
Hydrogen ion(+1)	1.02E-12	1.02E-12	0	0	0	1.2272E-08
Dihydrogen orthosilicate ion(-2)	1.23E-12	1.23E-12	0	0	0	1.4779E-08
Trihydrogen silicate ion(-1)	2.73E-08	2.73E-08	0	0	0	3.2836E-04
Bicarbonate ion(-1)	5.98E-11	5.98E-11	0	0	0	7.2030E-07
Hydrogen difluoride ion (-1)	9.43E-18	9.43E-18	0	0	0	1.1347E-13
Hydrogen hexafluorosilicate ion(-	3.45E-46	3.45E-46	0	0	0	4.1490E-42
Bisulfate(VI) ion (-1)	6.41E-14	6.41E-14	0	0	0	7.7171E-10
Potassium ion(+1)	6.52E-05	6.52E-05	0	0	0	7.8496E-01
Potassium sulfate(VI) ion(-1)	1.88E-08	1.88E-08	0	0	0	2.2609E-04
Magnesium ion(+2)	7.79E-09	7.79E-09	0	0	0	9.3729E-05
Magnesium monofluoride ion(+1)	9.64E-11	9.64E-11	0	0	0	1.1607E-06
Magnesium bicarbonate ion(+1)	2.91E-11	2.91E-11	0	0	0	3.4972E-07
Magnesium hydrogen metasilicat	1.17E-08	1.17E-08	0	0	0	1.4036E-04
Magnesium hydroxide ion(+1)	3.47E-09	3.47E-09	0	0	0	4.1821E-05
Sodium ion(+1)	5.18E-04	5.18E-04	0	0	0	6.2308E+00
Disodium fluoride ion(+1)	5.28E-09	5.28E-09	0	0	0	6.3530E-05
Sodium carbonate ion(-1)	2.42E-12	2.42E-12	0	0	0	2.9172E-08
Sodium sulfate ion(-1)	5.13E-43	5.13E-43	0	0	0	6.1710E-39
Nitrate ion(-1)	3.67E-04	3.67E-04	0	0	0	4.4158E+00
Hydroxide ion(-1)	8.27E-11	8.27E-11	0	0	0	9.9554E-07
Hexafluorosilicon ion(-2)	9.12E-40	9.12E-40	0	0	0	1.0974E-35
Sulfate ion(-2)	2.53E-11	2.53E-11	0	0	0	3.0506E-07

Species Output (True Species)

Aqu SD-6/471.3	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	7.20E-07
Bisulfate(VI) ion (-1)	7.72E-10
Bromide ion (-1)	1.73E+00
Calcium bicarbonate ion(+1)	2.67E-06
Calcium carbonate (calcite)	9.45E-07
Calcium chloride	5.49E-09
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	1.68E-03
Calcium hydroxide ion(+1)	1.19E-04
Calcium ion(+2)	5.00E-02
Calcium monochloride ion(+1)	2.87E-02
Calcium monofluoride ion(+1)	1.01E-04
Calcium mononitrate ion(+1)	7.74E+00
Calcium silicon dioxide dihydroxide	5.97E-07
Calcium sulfate	2.02E-04
Carbon dioxide	6.69E-08
Carbonate ion(-2)	1.01E-07
Chloride ion(-1)	8.74E+00
Dihydrogen hexafluorosilicate	3.64E-51
Dihydrogen orthosilicate ion(-2)	1.48E-08
Disodium fluoride ion(+1)	6.35E-05
Fluoride ion(-1)	3.44E-05
Hexafluorosilicon ion(-2)	1.10E-35
Hydrofluoride, dimer	5.99E-21
Hydrogen bromide	3.68E-17
Hydrogen chloride	3.53E-12
Hydrogen difluoride ion (-1)	1.13E-13
Hydrogen fluoride	1.25E-10
Hydrogen hexafluorosilicate ion(-1)	4.15E-42
Hydrogen ion(+1)	1.23E-08
Hydroxide ion(-1)	9.96E-07
Magnesium bicarbonate ion(+1)	3.50E-07
Magnesium carbonate	1.97E-08
Magnesium dihydrogen orthosilicate	3.93E-07
Magnesium hydrogen metasilicate ion(	1.40E-04
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	4.18E-05
Magnesium ion(+2)	9.37E-05
Magnesium monofluoride ion(+1)	1.16E-06
Magnesium sulfate	7.81E-06
Nitrate ion(-1)	4.42E+00
Nitric acid	1.41E-10
Potassium bisulfate(VI)	5.53E-12
Potassium chloride	1.53E-02
Potassium ion(+1)	7.85E-01
Potassium sulfate(VI) ion(-1)	2.26E-04
Silicon dioxide (amorphous)	2.71E-03

Silicon tetrachloride	4.59E-69
Sodium bicarbonate	1.71E-07
Sodium bromide	2.27E-01
Sodium carbonate ion(-1)	2.92E-08
Sodium chloride	0.00E+00
Sodium fluoride	2.12E-05
Sodium hydrogen metasilicate	2.07E-03
Sodium ion(+1)	6.23E+00
Sodium nitrate	9.06E-01
Sodium sulfate ion(-1)	6.17E-39
Sulfate ion(-2)	3.05E-07
Sulfur trioxide	5.47E-31
Sulfuric(VI) acid	4.24E-28
Tetrafluorosilane	5.52E-32
Trihydrogen silicate ion(-1)	3.28E-04

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3293	3.93E-03	55.3254	0	0	5.5508E+01	14134.06
Calcium carbonate (calcite)	4.38E-15	4.38E-15	0	0	0	6.1944E-11	
Calcium sulfate	3.12E-03	1.52E-08	0	3.12E-03	0	2.1512E-04	
Magnesium sulfate-0.5-(magnesi	1.62E-04	0	0	1.62E-04	0	0.0000E+00	
Magnesium carbonate	2.03E-12	2.03E-12	0	0	0	2.8748E-08	
Sodium bromide	3.86E-05	3.86E-05	0	0	0	5.4547E-01	
Sodium chloride	2.69E-04	0	0	2.69E-04	0	0.0000E+00	
Sodium fluoride	4.89E-10	4.89E-10	0	0	0	6.9084E-06	
Sodium nitrate	5.77E-05	5.77E-05	0	0	0	8.1569E-01	
Silicon dioxide (amorphous)	1.07E-03	1.52E-07	0	1.06E-03	0	2.1457E-03	
Sulfur trioxide	2.83E-28	9.22E-31	2.82E-28	0	0	1.3035E-26	
Hydrofluoride, dimer	8.65E-20	5.89E-24	8.65E-20	0	0	8.3239E-20	
Calcium chloride	2.60E-15	2.60E-15	0	0	0	3.6784E-11	
Calcium silicon dioxide dihydroxic	2.02E-15	2.02E-15	0	0	0	2.8535E-11	
Carbon dioxide	1.52E-03	5.19E-12	1.52E-03	0	0	7.3333E-08	
Dihydrogen hexafluorosilicate	6.05E-52	6.05E-52	0	0	0	8.5510E-48	
Sulfuric(VI) acid	5.24E-23	7.14E-28	5.24E-23	0	0	1.0089E-23	
Hydrogen bromide	4.78E-10	7.40E-20	4.78E-10	0	0	1.0466E-15	
Hydrogen chloride	1.50E-07	3.16E-15	1.50E-07	0	0	4.4612E-11	
Hydrogen fluoride	1.11E-08	2.39E-14	1.11E-08	0	0	3.3814E-10	
Nitric acid	4.54E-08	7.48E-14	4.54E-08	0	0	1.0571E-09	
Potassium chloride	1.06E-06	1.06E-06	0	0	0	1.5052E-02	
Potassium bisulfate(VI)	7.25E-13	7.25E-13	0	0	0	1.0242E-08	
Magnesium hydroxide	6.89E-04	0	0	6.89E-04	0	0.0000E+00	
Magnesium fluoride	5.74E-05	0	0	5.74E-05	0	0.0000E+00	
Magnesium dihydrogen orthosilic	2.97E-11	2.97E-11	0	0	0	4.1938E-07	
Magnesium sulfate	1.32E-05	1.32E-05	0	0	0	1.8602E-01	
Sodium sulfate	5.15E-04	0	0	5.15E-04	0	0.0000E+00	
Sodium bicarbonate	1.49E-12	1.49E-12	0	0	0	2.1083E-08	
Sodium hydrogen metasilicate	1.32E-08	1.32E-08	0	0	0	1.8675E-04	
Silicon tetrachloride	7.09E-55	6.80E-69	7.09E-55	0	0	9.6066E-65	
Tetrafluorosilane	3.98E-29	7.06E-34	3.98E-29	0	0	9.9737E-30	
Bromide ion (-1)	1.24E-04	1.24E-04	0	0	0	1.7541E+00	
Calcium mononitrate ion(+1)	1.99E-06	1.99E-06	0	0	0	2.8168E-02	
Calcium ion(+2)	9.07E-08	9.07E-08	0	0	0	1.2824E-03	
Calcium monochloride ion(+1)	1.85E-07	1.85E-07	0	0	0	2.6189E-03	
Calcium monofluoride ion(+1)	1.47E-11	1.47E-11	0	0	0	2.0790E-07	

Calcium bicarbonate ion(+1)	1.39E-13	1.39E-13	0	0	0	1.9640E-09
Calcium hydrogen silicate ion(+1)	6.77E-11	6.77E-11	0	0	0	9.5673E-07
Calcium hydroxide ion(+1)	6.49E-12	6.49E-12	0	0	0	9.1782E-08
Chloride ion(-1)	3.02E-04	3.02E-04	0	0	0	4.2715E+00
Carbonate ion(-2)	4.78E-14	4.78E-14	0	0	0	6.7542E-10
Fluoride ion(-1)	4.77E-10	4.77E-10	0	0	0	6.7482E-06
Hydrogen ion(+1)	2.32E-11	2.32E-11	0	0	0	3.2816E-07
Dihydrogen orthosilicate ion(-2)	3.44E-15	3.44E-15	0	0	0	4.8588E-11
Trihydrogen silicate ion(-1)	9.87E-10	9.87E-10	0	0	0	1.3955E-05
Bicarbonate ion(-1)	1.39E-11	1.39E-11	0	0	0	1.9646E-07
Hydrogen difluoride ion (-1)	4.71E-18	4.71E-18	0	0	0	6.6589E-14
Hydrogen hexafluorosilicate ion(-	4.73E-44	4.73E-44	0	0	0	6.6912E-40
Bisulfate(VI) ion (-1)	1.16E-10	1.16E-10	0	0	0	1.6422E-06
Potassium ion(+1)	5.83E-05	5.83E-05	0	0	0	8.2416E-01
Potassium sulfate(VI) ion(-1)	2.01E-06	2.01E-06	0	0	0	2.8386E-02
Magnesium ion(+2)	8.39E-06	8.39E-06	0	0	0	1.1852E-01
Magnesium monofluoride ion(+1)	3.77E-09	3.77E-09	0	0	0	5.3353E-05
Magnesium bicarbonate ion(+1)	6.66E-10	6.66E-10	0	0	0	9.4080E-06
Magnesium hydrogen metasilicat	1.27E-07	1.27E-07	0	0	0	1.7886E-03
Magnesium hydroxide ion(+1)	5.08E-08	5.08E-08	0	0	0	7.1764E-04
Sodium ion(+1)	7.05E-04	7.05E-04	0	0	0	9.9707E+00
Disodium fluoride ion(+1)	1.48E-09	1.48E-09	0	0	0	2.0850E-05
Sodium carbonate ion(-1)	1.75E-14	1.75E-14	0	0	0	2.4728E-10
Sodium sulfate ion(-1)	4.48E-23	4.48E-23	0	0	0	6.3255E-19
Nitrate ion(-1)	3.55E-04	3.55E-04	0	0	0	5.0138E+00
Hydroxide ion(-1)	1.10E-11	1.10E-11	0	0	0	1.5483E-07
Hexafluorosilicon ion(-2)	5.76E-39	5.76E-39	0	0	0	8.1466E-35
Sulfate ion(-2)	2.70E-09	2.70E-09	0	0	0	3.8095E-05

Species Output (True Species)

Aqu SD-6/507.5	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	1.96E-07
Bisulfate(VI) ion (-1)	1.64E-06
Bromide ion (-1)	1.75E+00
Calcium bicarbonate ion(+1)	1.96E-09
Calcium carbonate (calcite)	6.19E-11
Calcium chloride	3.68E-11
Calcium hydrogen silicate ion(+1)	9.57E-07
Calcium hydroxide ion(+1)	9.18E-08
Calcium ion(+2)	1.28E-03
Calcium monochloride ion(+1)	2.62E-03
Calcium monofluoride ion(+1)	2.08E-07
Calcium mononitrate ion(+1)	2.82E-02
Calcium silicon dioxide dihydroxide	2.85E-11
Calcium sulfate	2.15E-04
Carbon dioxide	7.33E-08
Carbonate ion(-2)	6.75E-10
Chloride ion(-1)	4.27E+00
Dihydrogen hexafluorosilicate	8.55E-48
Dihydrogen orthosilicate ion(-2)	4.86E-11
Disodium fluoride ion(+1)	2.09E-05
Fluoride ion(-1)	6.75E-06
Hexafluorosilicon ion(-2)	8.15E-35
Hydrofluoride, dimer	8.32E-20
Hydrogen bromide	1.05E-15
Hydrogen chloride	4.46E-11
Hydrogen difluoride ion (-1)	6.66E-14
Hydrogen fluoride	3.38E-10
Hydrogen hexafluorosilicate ion(-1)	6.69E-40
Hydrogen ion(+1)	3.28E-07
Hydroxide ion(-1)	1.55E-07
Magnesium bicarbonate ion(+1)	9.41E-06
Magnesium carbonate	2.87E-08
Magnesium dihydrogen orthosilicate	4.19E-07
Magnesium fluoride	0.00E+00
Magnesium hydrogen metasilicate ion(+1)	1.79E-03
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	7.18E-04
Magnesium ion(+2)	1.19E-01
Magnesium monofluoride ion(+1)	5.34E-05
Magnesium sulfate	1.86E-01
Magnesium sulfate-0.5-(magnesium hydroxide)	0.00E+00
Nitrate ion(-1)	5.01E+00
Nitric acid	1.06E-09
Potassium bisulfate(VI)	1.02E-08
Potassium chloride	1.51E-02
Potassium ion(+1)	8.24E-01
Potassium sulfate(VI) ion(-1)	2.84E-02

Silicon dioxide (amorphous)	2.15E-03
Silicon tetrachloride	9.61E-65
Sodium bicarbonate	2.11E-08
Sodium bromide	5.45E-01
Sodium carbonate ion(-1)	2.47E-10
Sodium chloride	0.00E+00
Sodium fluoride	6.91E-06
Sodium hydrogen metasilicate	1.87E-04
Sodium ion(+1)	9.97E+00
Sodium nitrate	8.16E-01
Sodium sulfate	0.00E+00
Sodium sulfate ion(-1)	6.33E-19
Sulfate ion(-2)	3.81E-05
Sulfur trioxide	1.30E-26
Sulfuric(VI) acid	1.01E-23
Tetrafluorosilane	9.97E-30
Trihydrogen silicate ion(-1)	1.40E-05

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3279	5.20E-03	55.3227	0	0	5.5508E+01	10680.9007
Calcium carbonate (calcite)	1.04E-03	9.52E-11	0	1.04E-03	0	1.0170E-06	
Calcium sulfate	2.20E-11	2.20E-11	0	0	0	2.3446E-07	
Carbon dioxide	1.89E-03	8.87E-12	1.89E-03	0	0	9.4691E-08	
Magnesium carbonate	3.37E-12	3.37E-12	0	0	0	3.6003E-08	
Sodium bromide	3.59E-05	3.59E-05	0	0	0	3.8374E-01	
Sodium chloride	2.95E-04	0	0	2.95E-04	0	0.0000E+00	
Sodium fluoride	8.21E-07	8.21E-07	0	0	0	8.7695E-03	
Sodium nitrate	7.43E-05	7.43E-05	0	0	0	7.9355E-01	
Silicon dioxide (amorphous)	9.94E-04	2.09E-07	0	9.93E-04	0	2.2325E-03	
Hydrofluoride, dimer	1.13E-20	1.03E-24	1.13E-20	0	0	1.0977E-20	
Calcium chloride	3.75E-18	3.75E-18	0	0	0	4.0090E-14	
Calcium fluoride	4.55E-05	0	0	4.55E-05	0	0.0000E+00	
Calcium silicon dioxide dihydroxide	3.53E-11	3.53E-11	0	0	0	3.7703E-07	
Dihydrogen hexafluorosilicate	1.81E-54	1.81E-54	0	0	0	1.9304E-50	
Sulfuric(VI) acid	4.32E-30	7.85E-35	4.32E-30	0	0	8.3874E-31	
Hydrogen bromide	9.58E-14	1.98E-23	9.58E-14	0	0	2.1146E-19	
Hydrogen chloride	4.32E-11	1.21E-18	4.32E-11	0	0	1.2914E-14	
Hydrogen fluoride	4.03E-09	1.07E-14	4.03E-09	0	0	1.1378E-10	
Nitric acid	1.16E-11	2.54E-17	1.16E-11	0	0	2.7130E-13	
Potassium chloride	2.67E-06	2.67E-06	0	0	0	2.8536E-02	
Potassium bisulfate(VI)	5.22E-16	5.22E-16	0	0	0	5.5769E-12	
Magnesium hydroxide	4.07E-04	0	0	4.07E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilica	3.96E-11	3.96E-11	0	0	0	4.2269E-07	
Magnesium sulfate	1.45E-12	1.45E-12	0	0	0	1.5465E-08	
Sodium sulfate	5.59E-04	0	0	5.59E-04	0	0.0000E+00	
Sodium fluoride sulfate	1.97E-05	0	0	1.97E-05	0	0.0000E+00	
Sodium bicarbonate	8.61E-09	8.61E-09	0	0	0	9.1930E-05	
Sodium hydrogen metasilicate	6.14E-05	6.14E-05	0	0	0	6.5535E-01	
Silicon tetrachloride	4.83E-69	6.17E-83	4.83E-69	0	0	6.5879E-79	
Tetrafluorosilane	6.81E-31	1.61E-35	6.81E-31	0	0	1.7209E-31	
Sulfur trioxide	2.33E-35	1.01E-37	2.32E-35	0	0	1.0837E-33	
Bromide ion (-1)	1.27E-04	1.27E-04	0	0	0	1.3540E+00	
Calcium mononitrate ion(+1)	2.48E-09	2.48E-09	0	0	0	2.6446E-05	
Calcium ion(+2)	1.45E-10	1.45E-10	0	0	0	1.5536E-06	
Calcium monochloride ion(+1)	2.48E-10	2.48E-10	0	0	0	2.6532E-06	
Calcium monofluoride ion(+1)	2.61E-11	2.61E-11	0	0	0	2.7930E-07	

Calcium bicarbonate ion(+1)	8.23E-13	8.23E-13	0	0	0	8.7954E-09
Calcium hydrogen silicate ion(+1)	3.31E-10	3.31E-10	0	0	0	3.5339E-06
Calcium hydroxide ion(+1)	3.11E-11	3.11E-11	0	0	0	3.3256E-07
Chloride ion(-1)	4.44E-04	4.44E-04	0	0	0	4.7451E+00
Carbonate ion(-2)	9.41E-07	9.41E-07	0	0	0	1.0048E-02
Fluoride ion(-1)	7.38E-07	7.38E-07	0	0	0	7.8794E-03
Hydrogen ion(+1)	8.77E-15	8.77E-15	0	0	0	9.3721E-11
Dihydrogen orthosilicate ion(-2)	6.25E-08	6.25E-08	0	0	0	6.6782E-04
Trihydrogen silicate ion(-1)	5.11E-06	5.11E-06	0	0	0	5.4571E-02
Bicarbonate ion(-1)	7.93E-08	7.93E-08	0	0	0	8.4650E-04
Hydrogen difluoride ion (-1)	2.73E-15	2.73E-15	0	0	0	2.9117E-11
Hydrogen hexafluorosilicate ion(-1	4.97E-43	4.97E-43	0	0	0	5.3095E-39
Bisulfate(VI) ion (-1)	4.57E-14	4.57E-14	0	0	0	4.8809E-10
Potassium ion(+1)	1.46E-04	1.46E-04	0	0	0	1.5606E+00
Potassium sulfate(VI) ion(-1)	4.67E-06	4.67E-06	0	0	0	4.9906E-02
Magnesium ion(+2)	8.29E-13	8.29E-13	0	0	0	8.8579E-09
Magnesium monofluoride ion(+1)	5.12E-13	5.12E-13	0	0	0	5.4728E-09
Magnesium bicarbonate ion(+1)	2.92E-13	2.92E-13	0	0	0	3.1230E-09
Magnesium hydrogen metasilicate	4.72E-11	4.72E-11	0	0	0	5.0397E-07
Magnesium hydroxide ion(+1)	1.86E-11	1.86E-11	0	0	0	1.9870E-07
Sodium ion(+1)	9.18E-04	9.18E-04	0	0	0	9.8008E+00
Disodium fluoride ion(+1)	2.43E-06	2.43E-06	0	0	0	2.5928E-02
Sodium carbonate ion(-1)	3.54E-07	3.54E-07	0	0	0	3.7792E-03
Sodium sulfate ion(-1)	7.23E-25	7.23E-25	0	0	0	7.7174E-21
Nitrate ion(-1)	4.82E-04	4.82E-04	0	0	0	5.1493E+00
Hydroxide ion(-1)	4.86E-08	4.86E-08	0	0	0	5.1892E-04
Hexafluorosilicon ion(-2)	2.09E-34	2.09E-34	0	0	0	2.2337E-30
Sulfate ion(-2)	4.03E-09	4.03E-09	0	0	0	4.3004E-05

Species Output (True Species)

Aqu SD-6/522.5	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	8.47E-04
Bisulfate(VI) ion (-1)	4.88E-10
Bromide ion (-1)	1.35E+00
Calcium bicarbonate ion(+1)	8.80E-09
Calcium carbonate (calcite)	1.02E-06
Calcium chloride	4.01E-14
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	3.53E-06
Calcium hydroxide ion(+1)	3.33E-07
Calcium ion(+2)	1.55E-06
Calcium monochloride ion(+1)	2.65E-06
Calcium monofluoride ion(+1)	2.79E-07
Calcium mononitrate ion(+1)	2.64E-05
Calcium silicon dioxide dihydroxide	3.77E-07
Calcium sulfate	2.34E-07
Carbon dioxide	9.47E-08
Carbonate ion(-2)	1.00E-02
Chloride ion(-1)	4.75E+00
Dihydrogen hexafluorosilicate	1.93E-50
Dihydrogen orthosilicate ion(-2)	6.68E-04
Disodium fluoride ion(+1)	2.59E-02
Fluoride ion(-1)	7.88E-03
Hexafluorosilicon ion(-2)	2.23E-30
Hydrofluoride, dimer	1.10E-20
Hydrogen bromide	2.11E-19
Hydrogen chloride	1.29E-14
Hydrogen difluoride ion (-1)	2.91E-11
Hydrogen fluoride	1.14E-10
Hydrogen hexafluorosilicate ion(-1)	5.31E-39
Hydrogen ion(+1)	9.37E-11
Hydroxide ion(-1)	5.19E-04
Magnesium bicarbonate ion(+1)	3.12E-09
Magnesium carbonate	3.60E-08
Magnesium dihydrogen orthosilicate	4.23E-07
Magnesium hydrogen metasilicate ion(+1)	5.04E-07
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	1.99E-07
Magnesium ion(+2)	8.86E-09
Magnesium monofluoride ion(+1)	5.47E-09
Magnesium sulfate	1.55E-08
Nitrate ion(-1)	5.15E+00
Nitric acid	2.71E-13
Potassium bisulfate(VI)	5.58E-12
Potassium chloride	2.85E-02
Potassium ion(+1)	1.56E+00
Potassium sulfate(VI) ion(-1)	4.99E-02
Silicon dioxide (amorphous)	2.23E-03

Silicon tetrachloride	6.59E-79
Sodium bicarbonate	9.19E-05
Sodium bromide	3.84E-01
Sodium carbonate ion(-1)	3.78E-03
Sodium chloride	0.00E+00
Sodium fluoride	8.77E-03
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	6.55E-01
Sodium ion(+1)	9.80E+00
Sodium nitrate	7.94E-01
Sodium sulfate	0.00E+00
Sodium sulfate ion(-1)	7.72E-21
Sulfate ion(-2)	4.30E-05
Sulfur trioxide	1.08E-33
Sulfuric(VI) acid	8.39E-31
Tetrafluorosilane	1.72E-31
Trihydrogen silicate ion(-1)	5.46E-02

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.33	0.016724	55.3133	0	0	5.5508E+01	3319.043
Calcium carbonate (calcite)	5.93E-04	1.91E-10	0	5.93E-04	0	6.3468E-07	
Calcium fluoride	5.73E-05	0	0	5.73E-05	0	0.0000E+00	
Calcium sulfate	6.77E-03	4.08E-08	0	6.77E-03	0	1.3532E-04	
Carbon dioxide	6.04E-04	7.31E-12	6.04E-04	0	0	2.4272E-08	
Sodium bromide	3.03E-05	3.03E-05	0	0	0	1.0062E-01	
Sodium chloride	1.03E-03	0	0	1.03E-03	0	0.0000E+00	
Sodium fluoride	3.82E-10	3.82E-10	0	0	0	1.2691E-06	
Sodium nitrate	3.01E-07	3.01E-07	0	0	0	9.9768E-04	
Silicon dioxide (amorphous)	4.28E-04	5.46E-07	0	4.28E-04	0	1.8123E-03	
Sulfur trioxide	6.91E-33	6.01E-35	6.85E-33	0	0	1.9943E-31	
Hydrofluoride, dimer	3.61E-21	6.58E-25	3.61E-21	0	0	2.1843E-21	
Calcium chloride	1.40E-10	1.40E-10	0	0	0	4.6526E-07	
Calcium silicon dioxide dihydroxide	2.22E-10	2.22E-10	0	0	0	7.3799E-07	
Dihydrogen hexafluorosilicate	1.18E-55	1.18E-55	0	0	0	3.9052E-52	
Sulfuric(VI) acid	1.27E-27	4.65E-32	1.27E-27	0	0	1.5435E-28	
Hydrogen bromide	9.80E-11	4.07E-20	9.80E-11	0	0	1.3501E-16	
Hydrogen chloride	1.05E-07	5.91E-15	1.05E-07	0	0	1.9625E-11	
Hydrogen fluoride	2.27E-09	2.54E-13	2.27E-09	0	0	8.4344E-10	
Nitric acid	3.04E-12	1.14E-17	3.04E-12	0	0	3.7840E-14	
Magnesium hydroxide	4.11E-06	0	0	4.11E-06	0	0.0000E+00	
Magnesium carbonate	2.16E-12	2.16E-12	0	0	0	7.1639E-09	
Magnesium dihydrogen orthosilicate	7.95E-11	7.95E-11	0	0	0	2.6380E-07	
Magnesium sulfate	8.57E-10	8.57E-10	0	0	0	2.8458E-06	
Sodium bicarbonate	2.26E-12	2.26E-12	0	0	0	7.5126E-09	
Sodium hydrogen metasilicate	5.06E-08	5.06E-08	0	0	0	1.6797E-04	
Silicon tetrachloride	1.70E-55	4.35E-69	1.70E-55	0	0	1.4454E-65	
Tetrafluorosilane	6.92E-32	3.29E-36	6.92E-32	0	0	1.0918E-32	
Bromide ion (-1)	1.32E-04	1.32E-04	0	0	0	4.3937E-01	
Calcium mononitrate ion(+1)	9.09E-06	9.09E-06	0	0	0	3.0161E-02	
Calcium ion(+2)	9.88E-04	9.88E-04	0	0	0	3.2784E+00	
Calcium monochloride ion(+1)	1.11E-04	1.11E-04	0	0	0	3.6988E-01	
Calcium monofluoride ion(+1)	1.14E-07	1.14E-07	0	0	0	3.7821E-04	
Calcium bicarbonate ion(+1)	4.91E-09	4.91E-09	0	0	0	1.6285E-05	
Calcium hydrogen silicate ion(+1)	2.57E-06	2.57E-06	0	0	0	8.5213E-03	
Calcium hydroxide ion(+1)	3.18E-07	3.18E-07	0	0	0	1.0567E-03	
Chloride ion(-1)	2.61E-03	2.61E-03	0	0	0	8.6653E+00	

Carbonate ion(-2)	7.69E-13	7.69E-13	0	0	0	2.5516E-09
Fluoride ion(-1)	4.51E-09	4.51E-09	0	0	0	1.4980E-05
Hydrogen ion(+1)	1.79E-11	1.79E-11	0	0	0	5.9436E-08
Dihydrogen orthosilicate ion(-2)	1.26E-13	1.26E-13	0	0	0	4.1907E-10
Trihydrogen silicate ion(-1)	7.70E-09	7.70E-09	0	0	0	2.5571E-05
Bicarbonate ion(-1)	1.07E-11	1.07E-11	0	0	0	3.5650E-08
Hydrogen difluoride ion (-1)	1.58E-18	1.58E-18	0	0	0	5.2585E-15
Hydrogen hexafluorosilicate ion(-1)	6.93E-47	6.93E-47	0	0	0	2.3001E-43
Bisulfate(VI) ion (-1)	2.43E-14	2.43E-14	0	0	0	8.0617E-11
Magnesium ion(+2)	3.94E-06	3.94E-06	0	0	0	1.3091E-02
Magnesium monofluoride ion(+1)	7.11E-10	7.11E-10	0	0	0	2.3606E-06
Magnesium bicarbonate ion(+1)	1.50E-10	1.50E-10	0	0	0	4.9846E-07
Magnesium hydrogen metasilicate ion(+1)	1.17E-07	1.17E-07	0	0	0	3.8746E-04
Magnesium hydroxide ion(+1)	6.05E-08	6.05E-08	0	0	0	2.0094E-04
Sodium ion(+1)	6.37E-04	6.37E-04	0	0	0	2.1130E+00
Disodium fluoride ion(+1)	5.68E-10	5.68E-10	0	0	0	1.8862E-06
Sodium carbonate ion(-1)	2.00E-13	2.00E-13	0	0	0	6.6319E-10
Sodium sulfate ion(-1)	9.04E-44	9.04E-44	0	0	0	3.0019E-40
Nitrate ion(-1)	2.89E-07	2.89E-07	0	0	0	9.5882E-04
Hydroxide ion(-1)	1.91E-09	1.91E-09	0	0	0	6.3228E-06
Hexafluorosilicon ion(-2)	7.87E-41	7.87E-41	0	0	0	2.6113E-37
Sulfate ion(-2)	1.29E-07	1.29E-07	0	0	0	4.2721E-04

Species Output (True Species)

Aqu SD-7/370.3	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	3.57E-08
Bisulfate(VI) ion (-1)	8.06E-11
Bromide ion (-1)	4.39E-01
Calcium bicarbonate ion(+1)	1.63E-05
Calcium carbonate (calcite)	6.35E-07
Calcium chloride	4.65E-07
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	8.52E-03
Calcium hydroxide ion(+1)	1.06E-03
Calcium ion(+2)	3.28E+00
Calcium monochloride ion(+1)	3.70E-01
Calcium monofluoride ion(+1)	3.78E-04
Calcium mononitrate ion(+1)	3.02E-02
Calcium silicon dioxide dihydroxide	7.38E-07
Calcium sulfate	1.35E-04
Carbon dioxide	2.43E-08
Carbonate ion(-2)	2.55E-09
Chloride ion(-1)	8.67E+00
Dihydrogen hexafluorosilicate	3.91E-52
Dihydrogen orthosilicate ion(-2)	4.19E-10
Disodium fluoride ion(+1)	1.89E-06
Fluoride ion(-1)	1.50E-05
Hexafluorosilicon ion(-2)	2.61E-37
Hydrofluoride, dimer	2.18E-21
Hydrogen bromide	1.35E-16
Hydrogen chloride	1.96E-11
Hydrogen difluoride ion (-1)	5.26E-15
Hydrogen fluoride	8.43E-10
Hydrogen hexafluorosilicate ion(-1)	2.30E-43
Hydrogen ion(+1)	5.94E-08
Hydroxide ion(-1)	6.32E-06
Magnesium bicarbonate ion(+1)	4.98E-07
Magnesium carbonate	7.16E-09
Magnesium dihydrogen orthosilicate	2.64E-07
Magnesium hydrogen metasilicate ion(+1)	3.87E-04
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	2.01E-04
Magnesium ion(+2)	1.31E-02
Magnesium monofluoride ion(+1)	2.36E-06
Magnesium sulfate	2.85E-06
Nitrate ion(-1)	9.59E-04
Nitric acid	3.78E-14
Silicon dioxide (amorphous)	1.81E-03
Silicon tetrachloride	1.45E-65
Sodium bicarbonate	7.51E-09
Sodium bromide	1.01E-01
Sodium carbonate ion(-1)	6.63E-10

Sodium chloride	0.00E+00
Sodium fluoride	1.27E-06
Sodium hydrogen metasilicate	1.68E-04
Sodium ion(+1)	2.11E+00
Sodium nitrate	9.98E-04
Sodium sulfate ion(-1)	3.00E-40
Sulfate ion(-2)	4.27E-04
Sulfur trioxide	1.99E-31
Sulfuric(VI) acid	1.54E-28
Tetrafluorosilane	1.09E-32
Trihydrogen silicate ion(-1)	2.56E-05

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3265	3.12E-03	55.3234	0	0	5.5508E+01	17804.6645
Calcium sulfate	1.71E-03	8.11E-10	0	1.71E-03	0	1.4440E-05	
Carbon dioxide	5.08E-04	1.55E-13	5.08E-04	0	0	2.7611E-09	
Magnesium sulfate	7.85E-09	7.85E-09	0	0	0	1.3973E-04	
Sodium chloride	2.38E-03	0	0	2.38E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	1.03E-03	3.94E-08	0	1.03E-03	0	7.0186E-04	
Sulfur trioxide	3.15E-30	5.50E-34	3.15E-30	0	0	9.7917E-30	
Hydrofluoride, dimer	8.65E-20	3.14E-25	8.65E-20	0	0	5.5876E-21	
Calcium chloride	1.51E-10	1.51E-10	0	0	0	2.6945E-06	
Calcium carbonate (calcite)	6.96E-15	6.96E-15	0	0	0	1.2384E-10	
Calcium silicon dioxide dihydroxide	9.61E-15	9.61E-15	0	0	0	1.7117E-10	
Dihydrogen hexafluorosilicate	3.22E-53	3.22E-53	0	0	0	5.7403E-49	
Sulfuric(VI) acid	5.86E-25	4.26E-31	5.86E-25	0	0	7.5783E-27	
Hydrogen bromide	9.01E-08	7.44E-19	9.01E-08	0	0	1.3246E-14	
Hydrogen chloride	1.66E-05	1.86E-14	1.66E-05	0	0	3.3093E-10	
Hydrogen fluoride	1.11E-08	2.48E-14	1.11E-08	0	0	4.4093E-10	
Nitric acid	7.67E-09	5.71E-16	7.67E-09	0	0	1.0172E-11	
Magnesium hydroxide	2.62E-04	0	0	2.62E-04	0	0.0000E+00	
Magnesium chloride hexahydrate	3.85E-04	0	0	3.85E-04	0	0.0000E+00	
Magnesium carbonate	3.61E-14	3.61E-14	0	0	0	6.4315E-10	
Magnesium fluoride	5.53E-05	0	0	5.53E-05	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	1.58E-12	1.58E-12	0	0	0	2.8151E-08	
Sodium bromide	3.51E-06	3.51E-06	0	0	0	6.2471E-02	
Sodium fluoride	2.36E-13	2.36E-13	0	0	0	4.1965E-09	
Sodium bicarbonate	2.40E-16	2.40E-16	0	0	0	4.2682E-12	
Sodium hydrogen metasilicate	6.37E-12	6.37E-12	0	0	0	1.1344E-07	
Sodium nitrate	3.46E-09	3.46E-09	0	0	0	6.1597E-05	
Silicon tetrachloride	1.06E-46	5.40E-62	1.06E-46	0	0	9.6163E-58	
Tetrafluorosilane	3.98E-29	3.76E-35	3.98E-29	0	0	6.6951E-31	
Bromide ion (-1)	1.59E-04	1.59E-04	0	0	0	2.8327E+00	
Calcium mononitrate ion(+1)	1.76E-04	1.76E-04	0	0	0	3.1297E+00	
Calcium ion(+2)	4.55E-04	4.55E-04	0	0	0	8.1075E+00	
Calcium monochloride ion(+1)	3.31E-05	3.31E-05	0	0	0	5.9011E-01	
Calcium monofluoride ion(+1)	4.58E-09	4.58E-09	0	0	0	8.1495E-05	
Calcium bicarbonate ion(+1)	7.06E-11	7.06E-11	0	0	0	1.2566E-06	
Calcium hydrogen silicate ion(+1)	2.11E-08	2.11E-08	0	0	0	3.7502E-04	
Calcium hydroxide ion(+1)	2.18E-09	2.18E-09	0	0	0	3.8840E-05	

Chloride ion(-1)	6.93E-04	6.93E-04	0	0	0	1.2330E+01
Carbonate ion(-2)	4.34E-16	4.34E-16	0	0	0	7.7328E-12
Fluoride ion(-1)	4.04E-10	4.04E-10	0	0	0	7.1993E-06
Hydrogen ion(+1)	4.06E-13	4.06E-13	0	0	0	7.2292E-09
Dihydrogen orthosilicate ion(-2)	5.40E-17	5.40E-17	0	0	0	9.6076E-13
Trihydrogen silicate ion(-1)	2.05E-11	2.05E-11	0	0	0	3.6579E-07
Bicarbonate ion(-1)	2.11E-14	2.11E-14	0	0	0	3.7641E-10
Hydrogen difluoride ion (-1)	1.33E-19	1.33E-19	0	0	0	2.3640E-15
Hydrogen hexafluorosilicate ion(-1)	1.08E-44	1.08E-44	0	0	0	1.9251E-40
Bisulfate(VI) ion (-1)	2.36E-14	2.36E-14	0	0	0	4.2031E-10
Magnesium ion(+2)	3.80E-05	3.80E-05	0	0	0	6.7627E-01
Magnesium monofluoride ion(+1)	1.31E-08	1.31E-08	0	0	0	2.3402E-04
Magnesium bicarbonate ion(+1)	4.69E-10	4.69E-10	0	0	0	8.3543E-06
Magnesium hydrogen metasilicate ion(+1)	4.41E-07	4.41E-07	0	0	0	7.8456E-03
Magnesium hydroxide ion(+1)	1.91E-07	1.91E-07	0	0	0	3.3983E-03
Sodium ion(+1)	7.94E-06	7.94E-06	0	0	0	1.4134E-01
Disodium fluoride ion(+1)	4.21E-13	4.21E-13	0	0	0	7.4893E-09
Sodium carbonate ion(-1)	1.21E-17	1.21E-17	0	0	0	2.1455E-13
Sodium sulfate ion(-1)	7.27E-60	7.27E-60	0	0	0	1.2950E-55
Nitrate ion(-1)	5.99E-44	5.99E-44	0	0	0	1.0661E-39
Hydroxide ion(-1)	2.21E-11	2.21E-11	0	0	0	3.9367E-07
Hexafluorosilicon ion(-2)	1.06E-39	1.06E-39	0	0	0	1.8801E-35
Sulfate ion(-2)	1.76E-04	1.76E-04	0	0	0	3.1387E+00

Species Output (True Species)

Aqu SD-9/114.1	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	3.76E-10
Bisulfate(VI) ion (-1)	4.20E-10
Bromide ion (-1)	2.83E+00
Calcium bicarbonate ion(+1)	1.26E-06
Calcium carbonate (calcite)	1.24E-10
Calcium chloride	2.69E-06
Calcium hydrogen silicate ion(+1)	3.75E-04
Calcium hydroxide ion(+1)	3.88E-05
Calcium ion(+2)	8.11E+00
Calcium monochloride ion(+1)	5.90E-01
Calcium monofluoride ion(+1)	8.15E-05
Calcium mononitrate ion(+1)	3.13E+00
Calcium silicon dioxide dihydroxide	1.71E-10
Calcium sulfate	1.44E-05
Carbon dioxide	2.76E-09
Carbonate ion(-2)	7.73E-12
Chloride ion(-1)	1.23E+01
Dihydrogen hexafluorosilicate	5.74E-49
Dihydrogen orthosilicate ion(-2)	9.61E-13
Disodium fluoride ion(+1)	7.49E-09
Fluoride ion(-1)	7.20E-06
Hexafluorosilicon ion(-2)	1.88E-35
Hydrofluoride, dimer	5.59E-21
Hydrogen bromide	1.32E-14
Hydrogen chloride	3.31E-10
Hydrogen difluoride ion (-1)	2.36E-15
Hydrogen fluoride	4.41E-10
Hydrogen hexafluorosilicate ion(-1)	1.93E-40
Hydrogen ion(+1)	7.23E-09
Hydroxide ion(-1)	3.94E-07
Magnesium bicarbonate ion(+1)	8.35E-06
Magnesium carbonate	6.43E-10
Magnesium chloride hexahydrate	0.00E+00
Magnesium dihydrogen orthosilicate	2.82E-08
Magnesium fluoride	0.00E+00
Magnesium hydrogen metasilicate ion(+	7.85E-03
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	3.40E-03
Magnesium ion(+2)	6.76E-01
Magnesium monofluoride ion(+1)	2.34E-04
Magnesium sulfate	1.40E-04
Nitrate ion(-1)	1.07E-39
Nitric acid	1.02E-11
Silicon dioxide (amorphous)	7.02E-04
Silicon tetrachloride	9.62E-58
Sodium bicarbonate	4.27E-12
Sodium bromide	6.25E-02

Sodium carbonate ion(-1)	2.15E-13
Sodium chloride	0.00E+00
Sodium fluoride	4.20E-09
Sodium hydrogen metasilicate	1.13E-07
Sodium ion(+1)	1.41E-01
Sodium nitrate	6.16E-05
Sodium sulfate ion(-1)	1.29E-55
Sulfate ion(-2)	3.14E+00
Sulfur trioxide	9.79E-30
Sulfuric(VI) acid	7.58E-27
Tetrafluorosilane	6.70E-31
Trihydrogen silicate ion(-1)	3.66E-07

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3283	0.010452	55.3179	0	0	5.5508E+01	5310.652
Calcium sulfate	1.69E-03	2.33E-08	0	1.69E-03	0	1.2378E-04	
Carbon dioxide	6.06E-04	4.18E-12	6.06E-04	0	0	2.2191E-08	
Magnesium fluoride	5.73E-05	0	0	5.73E-05	0	0.0000E+00	
Magnesium sulfate	9.06E-08	9.06E-08	0	0	0	4.8135E-04	
Sodium chloride	2.52E-03	0	0	2.52E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	9.98E-04	3.11E-07	0	9.97E-04	0	1.6496E-03	
Sulfur trioxide	1.27E-30	6.35E-33	1.27E-30	0	0	3.3732E-29	
Hydrofluoride, dimer	8.65E-20	9.02E-24	8.65E-20	0	0	4.7895E-20	
Calcium chloride	8.73E-11	8.73E-11	0	0	0	4.6338E-07	
Calcium carbonate (calcite)	5.94E-13	5.94E-13	0	0	0	3.1527E-09	
Calcium silicon dioxide dihydroxide	6.87E-13	6.87E-13	0	0	0	3.6506E-09	
Dihydrogen hexafluorosilicate	9.26E-52	9.26E-52	0	0	0	4.9203E-48	
Sulfuric(VI) acid	2.36E-25	4.92E-30	2.36E-25	0	0	2.6107E-26	
Hydrogen bromide	1.74E-09	4.13E-19	1.74E-09	0	0	2.1925E-15	
Hydrogen chloride	1.49E-06	4.80E-14	1.49E-06	0	0	2.5471E-10	
Hydrogen fluoride	1.11E-08	7.01E-13	1.11E-08	0	0	3.7240E-09	
Nitric acid	1.62E-09	3.50E-15	1.62E-09	0	0	1.8590E-11	
Magnesium hydroxide	3.03E-04	0	0	3.03E-04	0	0.0000E+00	
Magnesium carbonate	1.24E-12	1.24E-12	0	0	0	6.5804E-09	
Magnesium dihydrogen orthosilicate	4.54E-11	4.54E-11	0	0	0	2.4130E-07	
Sodium bromide	2.17E-05	2.17E-05	0	0	0	1.1516E-01	
Sodium fluoride	7.54E-11	7.54E-11	0	0	0	4.0057E-07	
Sodium bicarbonate	9.16E-14	9.16E-14	0	0	0	4.8633E-10	
Sodium hydrogen metasilicate	2.04E-09	2.04E-09	0	0	0	1.0828E-05	
Sodium nitrate	5.79E-06	5.79E-06	0	0	0	3.0767E-02	
Silicon tetrachloride	6.88E-51	1.01E-64	6.88E-51	0	0	5.3594E-61	
Tetrafluorosilane	3.98E-29	1.08E-33	3.98E-29	0	0	5.7387E-30	
Bromide ion (-1)	1.41E-04	1.41E-04	0	0	0	7.4885E-01	
Calcium mononitrate ion(+1)	1.83E-04	1.83E-04	0	0	0	9.7200E-01	
Calcium ion(+2)	3.48E-04	3.48E-04	0	0	0	1.8487E+00	
Calcium monochloride ion(+1)	5.31E-05	5.31E-05	0	0	0	2.8174E-01	
Calcium monofluoride ion(+1)	2.11E-08	2.11E-08	0	0	0	1.1208E-04	
Calcium bicarbonate ion(+1)	1.74E-10	1.74E-10	0	0	0	9.2273E-07	
Calcium hydrogen silicate ion(+1)	9.71E-08	9.71E-08	0	0	0	5.1578E-04	
Calcium hydroxide ion(+1)	1.17E-08	1.17E-08	0	0	0	6.2375E-05	
Chloride ion(-1)	1.62E-03	1.62E-03	0	0	0	8.5930E+00	

Carbonate ion(-2)	4.32E-15	4.32E-15	0	0	0	2.2955E-11
Fluoride ion(-1)	1.36E-09	1.36E-09	0	0	0	7.2306E-06
Hydrogen ion(+1)	1.17E-10	1.17E-10	0	0	0	6.2032E-07
Dihydrogen orthosilicate ion(-2)	6.93E-16	6.93E-16	0	0	0	3.6800E-12
Trihydrogen silicate ion(-1)	4.80E-10	4.80E-10	0	0	0	2.5509E-06
Bicarbonate ion(-1)	5.51E-13	5.51E-13	0	0	0	2.9279E-09
Hydrogen difluoride ion (-1)	5.22E-18	5.22E-18	0	0	0	2.7695E-14
Hydrogen hexafluorosilicate ion(-1)	5.35E-44	5.35E-44	0	0	0	2.8401E-40
Bisulfate(VI) ion (-1)	2.52E-13	2.52E-13	0	0	0	1.3369E-09
Magnesium ion(+2)	2.55E-04	2.55E-04	0	0	0	1.3552E+00
Magnesium monofluoride ion(+1)	2.44E-08	2.44E-08	0	0	0	1.2936E-04
Magnesium bicarbonate ion(+1)	1.07E-09	1.07E-09	0	0	0	5.6718E-06
Magnesium hydrogen metasilicate ion(+1)	8.17E-07	8.17E-07	0	0	0	4.3366E-03
Magnesium hydroxide ion(+1)	4.13E-07	4.13E-07	0	0	0	2.1934E-03
Sodium ion(+1)	3.20E-04	3.20E-04	0	0	0	1.6983E+00
Disodium fluoride ion(+1)	9.67E-11	9.67E-11	0	0	0	5.1339E-07
Sodium carbonate ion(-1)	7.92E-16	7.92E-16	0	0	0	4.2076E-12
Sodium sulfate ion(-1)	1.43E-43	1.43E-43	0	0	0	7.5724E-40
Nitrate ion(-1)	4.71E-06	4.71E-06	0	0	0	2.5004E-02
Hydroxide ion(-1)	1.04E-10	1.04E-10	0	0	0	5.5369E-07
Hexafluorosilicon ion(-2)	5.62E-39	5.62E-39	0	0	0	2.9870E-35
Sulfate ion(-2)	4.01E-08	4.01E-08	0	0	0	2.1275E-04

Species Output (True Species)

Aqu SD-9_135.1	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	2.93E-09
Bisulfate(VI) ion (-1)	1.34E-09
Bromide ion (-1)	7.49E-01
Calcium bicarbonate ion(+1)	9.23E-07
Calcium carbonate (calcite)	3.15E-09
Calcium chloride	4.63E-07
Calcium hydrogen silicate ion(+1)	5.16E-04
Calcium hydroxide ion(+1)	6.24E-05
Calcium ion(+2)	1.85E+00
Calcium monochloride ion(+1)	2.82E-01
Calcium monofluoride ion(+1)	1.12E-04
Calcium mononitrate ion(+1)	9.72E-01
Calcium silicon dioxide dihydroxide	3.65E-09
Calcium sulfate	1.24E-04
Carbon dioxide	2.22E-08
Carbonate ion(-2)	2.30E-11
Chloride ion(-1)	8.59E+00
Dihydrogen hexafluorosilicate	4.92E-48
Dihydrogen orthosilicate ion(-2)	3.68E-12
Disodium fluoride ion(+1)	5.13E-07
Fluoride ion(-1)	7.23E-06
Hexafluorosilicon ion(-2)	2.99E-35
Hydrofluoride, dimer	4.79E-20
Hydrogen bromide	2.19E-15
Hydrogen chloride	2.55E-10
Hydrogen difluoride ion (-1)	2.77E-14
Hydrogen fluoride	3.72E-09
Hydrogen hexafluorosilicate ion(-1)	2.84E-40
Hydrogen ion(+1)	6.20E-07
Hydroxide ion(-1)	5.54E-07
Magnesium bicarbonate ion(+1)	5.67E-06
Magnesium carbonate	6.58E-09
Magnesium dihydrogen orthosilicate	2.41E-07
Magnesium fluoride	0.00E+00
Magnesium hydrogen metasilicate ion(+1	4.34E-03
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	2.19E-03
Magnesium ion(+2)	1.36E+00
Magnesium monofluoride ion(+1)	1.29E-04
Magnesium sulfate	4.81E-04
Nitrate ion(-1)	2.50E-02
Nitric acid	1.86E-11
Silicon dioxide (amorphous)	1.65E-03
Silicon tetrachloride	5.36E-61
Sodium bicarbonate	4.86E-10
Sodium bromide	1.15E-01
Sodium carbonate ion(-1)	4.21E-12

Sodium chloride	0.00E+00
Sodium fluoride	4.01E-07
Sodium hydrogen metasilicate	1.08E-05
Sodium ion(+1)	1.70E+00
Sodium nitrate	3.08E-02
Sodium sulfate ion(-1)	7.57E-40
Sulfate ion(-2)	2.13E-04
Sulfur trioxide	3.37E-29
Sulfuric(VI) acid	2.61E-26
Tetrafluorosilane	5.74E-30
Trihydrogen silicate ion(-1)	2.55E-06

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3284	1.29E-03	55.3271	0	0	5.5508E+01	43039.8
Calcium carbonate (calcite)	6.09E-04	2.17E-11	0	6.09E-04	0	9.3337E-07	
Calcium sulfate	4.07E-04	4.62E-09	0.00E+00	4.07E-04	0	1.9900E-04	
Magnesium carbonate	5.64E-13	5.64E-13	0	0.00E+00	0	2.4262E-08	
Sodium bromide	4.29E-05	4.29E-05	0	0	0	1.8484E+00	
Sodium chloride	1.73E-03	0	0	1.73E-03	0	0.0000E+00	
Sodium fluoride	6.15E-09	6.15E-09	0	0.00E+00	0	2.6467E-04	
Sodium nitrate	1.22E-05	1.22E-05	0.00E+00	0	0	5.2471E-01	
Silicon dioxide (amorphous)	9.73E-04	4.35E-08	0.00E+00	9.73E-04	0	1.8729E-03	
Sulfur trioxide	1.58E-32	1.57E-35	1.58E-32	0	0	6.7539E-31	
Hydrofluoride, dimer	8.31E-21	1.72E-25	8.31E-21	0	0	7.3974E-21	
Calcium chloride	7.91E-16	7.91E-16	0	0	0	3.4026E-11	
Calcium fluoride	5.74E-05	0.00E+00	0	5.74E-05	0	0.0000E+00	
Calcium silicon dioxide dihydroxid	1.09E-11	1.09E-11	0.00E+00	0	0	4.7127E-07	
Carbon dioxide	1.39E-03	1.35E-12	1.39E-03	0	0	5.8237E-08	
Dihydrogen hexafluorosilicate	1.63E-55	1.63E-55	0.00E+00	0	0	7.0139E-51	
Sulfuric(VI) acid	2.93E-27	1.21E-32	2.93E-27	0	0	5.2271E-28	
Hydrogen bromide	1.31E-11	6.17E-22	1.31E-11	0	0	2.6542E-17	
Hydrogen chloride	1.12E-09	7.18E-18	1.12E-09	0.00E+00	0	3.0885E-13	
Hydrogen fluoride	3.45E-09	2.76E-14	3.45E-09	0	0	1.1882E-09	
Nitric acid	8.20E-11	3.87E-17	8.20E-11	0	0	1.6647E-12	
Magnesium hydroxide	3.91E-04	0.00E+00	0	3.91E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilic:	9.01E-12	9.01E-12	0	0	0	3.8794E-07	
Magnesium sulfate	2.24E-10	2.24E-10	0	0	0	9.6379E-06	
Sodium sulfate	1.07E-03	0.00E+00	0	1.07E-03	0	0.0000E+00	
Sodium bicarbonate	5.52E-11	5.52E-11	0	0	0	2.3775E-06	
Sodium hydrogen metasilicate	5.36E-07	5.36E-07	0.00E+00	0	0	2.3082E-02	
Silicon tetrachloride	2.23E-63	6.48E-78	2.23E-63	0	0	2.7879E-73	
Tetrafluorosilane	3.67E-31	1.98E-36	3.67E-31	0	0	8.5154E-32	
Bromide ion (-1)	1.20E-04	1.20E-04	0	0	0	5.1540E+00	
Calcium mononitrate ion(+1)	3.64E-07	3.64E-07	0	0	0	1.5669E-02	
Calcium ion(+2)	8.92E-09	8.92E-09	0	0	0	3.8397E-04	
Calcium monochloride ion(+1)	9.34E-08	9.34E-08	0	0	0	4.0178E-03	
Calcium monofluoride ion(+1)	2.83E-10	2.83E-10	0	0	0	1.2192E-05	
Calcium bicarbonate ion(+1)	9.41E-12	9.41E-12	0	0	0	4.0498E-07	
Calcium hydrogen silicate ion(+1)	4.20E-09	4.20E-09	0	0	0	1.8098E-04	
Calcium hydroxide ion(+1)	4.70E-10	4.70E-10	0	0	0	2.0236E-05	

Chloride ion(-1)	7.74E-05	7.74E-05	0	0	0	3.3294E+00
Carbonate ion(-2)	1.26E-10	1.26E-10	0	0	0	5.4226E-06
Fluoride ion(-1)	4.75E-09	4.75E-09	0	0	0	2.0423E-04
Hydrogen ion(+1)	4.16E-14	4.16E-14	0	0	0	1.7907E-09
Dihydrogen orthosilicate ion(-2)	8.87E-12	8.87E-12	0	0	0	3.8166E-07
Trihydrogen silicate ion(-1)	3.23E-08	3.23E-08	0	0	0	1.3905E-03
Bicarbonate ion(-1)	4.36E-10	4.36E-10	0	0	0	1.8771E-05
Hydrogen difluoride ion (-1)	1.52E-17	1.52E-17	0	0	0	6.5284E-13
Hydrogen hexafluorosilicate ion(-	1.24E-45	1.24E-45	0	0	0	5.3419E-41
Bisulfate(VI) ion (-1)	2.35E-13	2.35E-13	0	0	0	1.0101E-08
Magnesium ion(+2)	2.44E-10	2.44E-10	0	0	0	1.0511E-05
Magnesium monofluoride ion(+1)	4.07E-12	4.07E-12	0	0	0	1.7524E-07
Magnesium bicarbonate ion(+1)	2.31E-12	2.31E-12	0	0	0	9.9483E-08
Magnesium hydrogen metasilicat	4.40E-10	4.40E-10	0	0	0	1.8951E-05
Magnesium hydroxide ion(+1)	2.06E-10	2.06E-10	0	0	0	8.8625E-06
Sodium ion(+1)	2.15E-04	2.15E-04	0	0	0	9.2723E+00
Disodium fluoride ion(+1)	2.84E-08	2.84E-08	0	0	0	1.2227E-03
Sodium carbonate ion(-1)	6.31E-11	6.31E-11	0	0	0	2.7139E-06
Sodium sulfate ion(-1)	4.09E-20	4.09E-20	0	0	0	1.7594E-15
Nitrate ion(-1)	1.81E-05	1.81E-05	0	0	0	7.7847E-01
Hydroxide ion(-1)	5.15E-10	5.15E-10	0	0	0	2.2153E-05
Hexafluorosilicon ion(-2)	1.32E-38	1.32E-38	0	0	0	5.6619E-34
Sulfate ion(-2)	3.57E-07	3.57E-07	0	0	0	0.01536301

Species Output (True Species)

Aqu SD-9/176.2	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	1.88E-05
Bisulfate(VI) ion (-1)	1.01E-08
Bromide ion (-1)	5.15E+00
Calcium bicarbonate ion(+1)	4.05E-07
Calcium carbonate (calcite)	9.33E-07
Calcium chloride	3.40E-11
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	1.81E-04
Calcium hydroxide ion(+1)	2.02E-05
Calcium ion(+2)	3.84E-04
Calcium monochloride ion(+1)	4.02E-03
Calcium monofluoride ion(+1)	1.22E-05
Calcium mononitrate ion(+1)	1.57E-02
Calcium silicon dioxide dihydroxide	4.71E-07
Calcium sulfate	1.99E-04
Carbon dioxide	5.82E-08
Carbonate ion(-2)	5.42E-06
Chloride ion(-1)	3.33E+00
Dihydrogen hexafluorosilicate	7.01E-51
Dihydrogen orthosilicate ion(-2)	3.82E-07
Disodium fluoride ion(+1)	1.22E-03
Fluoride ion(-1)	2.04E-04
Hexafluorosilicon ion(-2)	5.66E-34
Hydrofluoride, dimer	7.40E-21
Hydrogen bromide	2.65E-17
Hydrogen chloride	3.09E-13
Hydrogen difluoride ion (-1)	6.53E-13
Hydrogen fluoride	1.19E-09
Hydrogen hexafluorosilicate ion(-1)	5.34E-41
Hydrogen ion(+1)	1.79E-09
Hydroxide ion(-1)	2.22E-05
Magnesium bicarbonate ion(+1)	9.95E-08
Magnesium carbonate	2.43E-08
Magnesium dihydrogen orthosilicate	3.88E-07
Magnesium hydrogen metasilicate ion	1.90E-05
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	8.86E-06
Magnesium ion(+2)	1.05E-05
Magnesium monofluoride ion(+1)	1.75E-07
Magnesium sulfate	9.64E-06
Nitrate ion(-1)	7.78E-01
Nitric acid	1.66E-12
Silicon dioxide (amorphous)	1.87E-03
Silicon tetrachloride	2.79E-73
Sodium bicarbonate	2.38E-06
Sodium bromide	1.85E+00
Sodium carbonate ion(-1)	2.71E-06

Sodium chloride	0.00E+00
Sodium fluoride	2.65E-04
Sodium hydrogen metasilicate	2.31E-02
Sodium ion(+1)	9.27E+00
Sodium nitrate	5.25E-01
Sodium sulfate	0.00E+00
Sodium sulfate ion(-1)	1.76E-15
Sulfate ion(-2)	1.54E-02
Sulfur trioxide	6.75E-31
Sulfuric(VI) acid	5.23E-28
Tetrafluorosilane	8.52E-32
Trihydrogen silicate ion(-1)	1.39E-03

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3285	0.022429	55.306	0	0	5.5508E+01	2474.843
Calcium sulfate	2.71E-03	4.84E-08	0	2.71E-03	0	1.1982E-04	
Magnesium carbonate	2.57E-12	2.57E-12	0	0	0	6.3717E-09	
Magnesium fluoride	5.73E-05	0	0	5.73E-05	0	0.0000E+00	
Magnesium sulfate	2.17E-07	2.17E-07	0	0	0	5.3680E-04	
Sodium chloride	1.22E-03	0	0	1.22E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	1.23E-03	6.47E-07	0	1.23E-03	0	1.6003E-03	
Sulfur trioxide	1.47E-30	1.52E-32	1.46E-30	0	0	3.7617E-29	
Hydrofluoride, dimer	8.65E-20	1.87E-23	8.64E-20	0	0	4.6365E-20	
Calcium chloride	1.71E-10	1.71E-10	0	0	0	4.2376E-07	
Calcium carbonate (calcite)	1.07E-12	1.07E-12	0	0	0	2.6500E-09	
Calcium silicon dioxide dihydroxid	1.24E-12	1.24E-12	0	0	0	3.0678E-09	
Carbon dioxide	6.06E-04	8.70E-12	6.06E-04	0	0	2.1531E-08	
Dihydrogen hexafluorosilicate	1.92E-51	1.92E-51	0	0	0	4.7632E-48	
Sulfuric(VI) acid	2.71E-25	1.18E-29	2.71E-25	0	0	2.9114E-26	
Hydrogen bromide	8.77E-10	4.32E-19	8.77E-10	0	0	1.0698E-15	
Hydrogen chloride	1.56E-06	1.04E-13	1.56E-06	0	0	2.5723E-10	
Hydrogen fluoride	1.11E-08	1.47E-12	1.11E-08	0	0	3.6298E-09	
Nitric acid	8.51E-10	3.80E-15	8.51E-10	0	0	9.4017E-12	
Magnesium hydroxide	3.03E-04	0	0	3.03E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilica	9.44E-11	9.44E-11	0	0	0	2.3359E-07	
Sodium bromide	2.18E-05	2.18E-05	0	0	0	5.3861E-02	
Sodium fluoride	1.50E-10	1.50E-10	0	0	0	3.7173E-07	
Sodium bicarbonate	1.82E-13	1.82E-13	0	0	0	4.5141E-10	
Sodium hydrogen metasilicate	4.06E-09	4.06E-09	0	0	0	1.0048E-05	
Sodium nitrate	6.39E-06	6.39E-06	0	0	0	1.5810E-02	
Silicon tetrachloride	8.14E-51	2.48E-64	8.14E-51	0	0	6.1442E-61	
Tetrafluorosilane	3.98E-29	2.24E-33	3.98E-29	0	0	5.5556E-30	
Bromide ion (-1)	1.41E-04	1.41E-04	0	0	0	3.4878E-01	
Calcium mononitrate ion(+1)	1.66E-04	1.66E-04	0	0	0	4.0976E-01	
Calcium ion(+2)	7.49E-04	7.49E-04	0	0	0	1.8545E+00	
Calcium monochloride ion(+1)	9.07E-05	9.07E-05	0	0	0	2.2451E-01	
Calcium monofluoride ion(+1)	3.64E-08	3.64E-08	0	0	0	9.0056E-05	
Calcium bicarbonate ion(+1)	3.03E-10	3.03E-10	0	0	0	7.5078E-07	
Calcium hydrogen silicate ion(+1)	1.67E-07	1.67E-07	0	0	0	4.1442E-04	
Calcium hydroxide ion(+1)	2.10E-08	2.10E-08	0	0	0	5.2073E-05	
Chloride ion(-1)	3.48E-03	3.48E-03	0	0	0	8.6243E+00	

Carbonate ion(-2)	1.01E-14	1.01E-14	0	0	0	2.4951E-11
Fluoride ion(-1)	3.25E-09	3.25E-09	0	0	0	8.0471E-06
Hydrogen ion(+1)	2.57E-10	2.57E-10	0	0	0	6.3670E-07
Dihydrogen orthosilicate ion(-2)	1.55E-15	1.55E-15	0	0	0	3.8393E-12
Trihydrogen silicate ion(-1)	9.97E-10	9.97E-10	0	0	0	2.4671E-06
Bicarbonate ion(-1)	1.15E-12	1.15E-12	0	0	0	2.8462E-09
Hydrogen difluoride ion (-1)	1.22E-17	1.22E-17	0	0	0	3.0077E-14
Hydrogen hexafluorosilicate ion(-	1.24E-43	1.24E-43	0	0	0	3.0575E-40
Bisulfate(VI) ion (-1)	6.41E-13	6.41E-13	0	0	0	1.5864E-09
Magnesium ion(+2)	6.25E-04	6.25E-04	0	0	0	1.5461E+00
Magnesium monofluoride ion(+1)	4.84E-08	4.84E-08	0	0	0	1.1973E-04
Magnesium bicarbonate ion(+1)	2.10E-09	2.10E-09	0	0	0	5.2095E-06
Magnesium hydrogen metasilicate	1.62E-06	1.62E-06	0	0	0	4.0139E-03
Magnesium hydroxide ion(+1)	8.52E-07	8.52E-07	0	0	0	2.1094E-03
Sodium ion(+1)	6.24E-04	6.24E-04	0	0	0	1.5448E+00
Disodium fluoride ion(+1)	1.76E-10	1.76E-10	0	0	0	4.3666E-07
Sodium carbonate ion(-1)	1.75E-15	1.75E-15	0	0	0	4.3432E-12
Sodium sulfate ion(-1)	2.77E-43	2.77E-43	0	0	0	6.8497E-40
Nitrate ion(-1)	5.45E-06	5.45E-06	0	0	0	1.3476E-02
Hydroxide ion(-1)	2.71E-10	2.71E-10	0	0	0	6.7065E-07
Hexafluorosilicon ion(-2)	1.41E-38	1.41E-38	0	0	0	3.4807E-35
Sulfate ion(-2)	1.12E-07	1.12E-07	0	0	0	2.7686E-04

Species Output (True Species)

Aqu SD-9/94.2	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	2.85E-09
Bisulfate(VI) ion (-1)	1.59E-09
Bromide ion (-1)	3.49E-01
Calcium bicarbonate ion(+1)	7.51E-07
Calcium carbonate (calcite)	2.65E-09
Calcium chloride	4.24E-07
Calcium hydrogen silicate ion(+1)	4.14E-04
Calcium hydroxide ion(+1)	5.21E-05
Calcium ion(+2)	1.85E+00
Calcium monochloride ion(+1)	2.25E-01
Calcium monofluoride ion(+1)	9.01E-05
Calcium mononitrate ion(+1)	4.10E-01
Calcium silicon dioxide dihydroxide	3.07E-09
Calcium sulfate	1.20E-04
Carbon dioxide	2.15E-08
Carbonate ion(-2)	2.50E-11
Chloride ion(-1)	8.62E+00
Dihydrogen hexafluorosilicate	4.76E-48
Dihydrogen orthosilicate ion(-2)	3.84E-12
Disodium fluoride ion(+1)	4.37E-07
Fluoride ion(-1)	8.05E-06
Hexafluorosilicon ion(-2)	3.48E-35
Hydrofluoride, dimer	4.64E-20
Hydrogen bromide	1.07E-15
Hydrogen chloride	2.57E-10
Hydrogen difluoride ion (-1)	3.01E-14
Hydrogen fluoride	3.63E-09
Hydrogen hexafluorosilicate ion(-1)	3.06E-40
Hydrogen ion(+1)	6.37E-07
Hydroxide ion(-1)	6.71E-07
Magnesium bicarbonate ion(+1)	5.21E-06
Magnesium carbonate	6.37E-09
Magnesium dihydrogen orthosilicate	2.34E-07
Magnesium fluoride	0.00E+00
Magnesium hydrogen metasilicate ion(+	4.01E-03
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	2.11E-03
Magnesium ion(+2)	1.55E+00
Magnesium monofluoride ion(+1)	1.20E-04
Magnesium sulfate	5.37E-04
Nitrate ion(-1)	1.35E-02
Nitric acid	9.40E-12
Silicon dioxide (amorphous)	1.60E-03
Silicon tetrachloride	6.14E-61
Sodium bicarbonate	4.51E-10
Sodium bromide	5.39E-02
Sodium carbonate ion(-1)	4.34E-12

Sodium chloride	0.00E+00
Sodium fluoride	3.72E-07
Sodium hydrogen metasilicate	1.00E-05
Sodium ion(+1)	1.54E+00
Sodium nitrate	1.58E-02
Sodium sulfate ion(-1)	6.85E-40
Sulfate ion(-2)	2.77E-04
Sulfur trioxide	3.76E-29
Sulfuric(VI) acid	2.91E-26
Tetrafluorosilane	5.56E-30
Trihydrogen silicate ion(-1)	2.47E-06

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3277	3.72E-03	55.324	0	0	5.5508E+01	14932.1425
Calcium carbonate (calcite)	1.07E-03	6.68E-11	0	1.07E-03	0	9.9773E-07	
Calcium sulfate	3.00E-13	3.00E-13	0	0	0	4.4850E-09	
Carbon dioxide	1.65E-03	5.27E-12	1.65E-03	0	0	7.8654E-08	
Magnesium carbonate	2.06E-12	2.06E-12	0	0	0	3.0799E-08	
Sodium bromide	3.73E-05	3.73E-05	0	0	0	5.5667E-01	
Sodium chloride	2.19E-03	0	0	2.19E-03	0	0.0000E+00	
Sodium fluoride	1.62E-06	1.62E-06	0	0	0	2.4153E-02	
Sodium nitrate	4.93E-05	4.93E-05	0	0	0	7.3609E-01	
Silicon dioxide (amorphous)	3.70E-04	1.42E-07	0	3.70E-04	0	2.1243E-03	
Hydrofluoride, dimer	4.26E-21	2.71E-25	4.26E-21	0	0	4.0509E-21	
Hexasodium carbonate bissulfat	4.57E-05	0	0	4.57E-05	0	0.0000E+00	
Calcium chloride	1.44E-19	1.44E-19	0	0	0	2.1529E-15	
Calcium silicon dioxide dihydroxi	2.84E-11	2.84E-11	0	0	0	4.2421E-07	
Dihydrogen hexafluorosilicate	6.75E-56	6.75E-56	0	0	0	1.0080E-51	
Sulfuric(VI) acid	7.35E-32	9.37E-37	7.35E-32	0	0	1.3990E-32	
Hydrogen bromide	3.10E-14	4.49E-24	3.10E-14	0	0	6.7017E-20	
Hydrogen chloride	9.43E-12	1.85E-19	9.43E-12	0	0	2.7679E-15	
Hydrogen fluoride	2.47E-09	1.53E-14	2.47E-09	0	0	2.2786E-10	
Nitric acid	1.95E-12	2.96E-18	1.95E-12	0	0	4.4133E-14	
Magnesium hydroxide	1.52E-04	0	0	1.52E-04	0	0.0000E+00	
Magnesium dihydrogen orthosili	2.78E-11	2.78E-11	0	0	0	4.1469E-07	
Magnesium sulfate	1.73E-14	1.73E-14	0	0	0	2.5796E-10	
Sodium fluoride sulfate	1.06E-04	0	0	1.06E-04	0	0.0000E+00	
Sodium bicarbonate	2.41E-08	2.41E-08	0	0	0	3.5997E-04	
Sodium hydrogen metasilicate	1.97E-04	1.97E-04	0	0	0	2.9430E+00	
Silicon tetrachloride	1.10E-71	9.86E-86	1.10E-71	0	0	1.4724E-81	
Tetrafluorosilane	9.63E-32	1.60E-36	9.63E-32	0	0	2.3889E-32	
Sulfur trioxide	3.96E-37	1.21E-39	3.95E-37	0	0	1.8077E-35	
Bromide ion (-1)	1.25E-04	1.25E-04	0	0	0	1.8727E+00	
Calcium mononitrate ion(+1)	1.01E-10	1.01E-10	0	0	0	1.5066E-06	
Calcium ion(+2)	4.96E-12	4.96E-12	0	0	0	7.4124E-08	
Calcium monochloride ion(+1)	1.07E-11	1.07E-11	0	0	0	1.6044E-07	
Calcium monofluoride ion(+1)	3.11E-12	3.11E-12	0	0	0	4.6423E-08	
Calcium bicarbonate ion(+1)	1.41E-13	1.41E-13	0	0	0	2.1103E-09	
Calcium hydrogen silicate ion(+1	6.30E-11	6.30E-11	0	0	0	9.4048E-07	
Calcium hydroxide ion(+1)	7.08E-12	7.08E-12	0	0	0	1.0579E-07	

Chloride ion(-1)	2.87E-04	2.87E-04	0	0	0	4.2891E+00
Carbonate ion(-2)	1.15E-05	1.15E-05	0	0	0	1.7125E-01
Fluoride ion(-1)	1.56E-06	1.56E-06	0	0	0	2.3232E-02
Hydrogen ion(+1)	1.39E-15	1.39E-15	0	0	0	2.0821E-11
Dihydrogen orthosilicate ion(-2)	6.79E-07	6.79E-07	0	0	0	1.0132E-02
Trihydrogen silicate ion(-1)	1.43E-05	1.43E-05	0	0	0	2.1389E-01
Bicarbonate ion(-1)	2.10E-07	2.10E-07	0	0	0	3.1353E-03
Hydrogen difluoride ion (-1)	3.45E-15	3.45E-15	0	0	0	5.1441E-11
Hydrogen hexafluorosilicate ion(	7.76E-44	7.76E-44	0	0	0	1.1583E-39
Bisulfate(VI) ion (-1)	2.61E-15	2.61E-15	0	0	0	3.8976E-11
Magnesium ion(+2)	6.20E-14	6.20E-14	0	0	0	9.2632E-10
Magnesium monofluoride ion(+1	5.32E-14	5.32E-14	0	0	0	7.9482E-10
Magnesium bicarbonate ion(+1)	3.98E-14	3.98E-14	0	0	0	5.9392E-10
Magnesium hydrogen metasilica	7.83E-12	7.83E-12	0	0	0	1.1695E-07
Magnesium hydroxide ion(+1)	3.75E-12	3.75E-12	0	0	0	5.5948E-08
Sodium ion(+1)	6.61E-04	6.61E-04	0	0	0	9.8669E+00
Disodium fluoride ion(+1)	5.28E-06	5.28E-06	0	0	0	7.8896E-02
Sodium carbonate ion(-1)	4.12E-06	4.12E-06	0	0	0	6.1553E-02
Sodium sulfate ion(-1)	6.52E-24	6.52E-24	0	0	0	9.7396E-20
Nitrate ion(-1)	2.09E-04	2.09E-04	0	0	0	3.1170E+00
Hydroxide ion(-1)	1.42E-07	1.42E-07	0	0	0	2.1271E-03
Hexafluorosilicon ion(-2)	1.35E-34	1.35E-34	0	0	0	2.0203E-30
Sulfate ion(-2)	8.44E-09	8.44E-09	0	0	0	1.2606E-04

Species Output (True Species)

Aqu UZ-14/1258.5	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	3.14E-03
Bisulfate(VI) ion (-1)	3.90E-11
Bromide ion (-1)	1.87E+00
Calcium bicarbonate ion(+1)	2.11E-09
Calcium carbonate (calcite)	9.98E-07
Calcium chloride	2.15E-15
Calcium hydrogen silicate ion(+1)	9.40E-07
Calcium hydroxide ion(+1)	1.06E-07
Calcium ion(+2)	7.41E-08
Calcium monochloride ion(+1)	1.60E-07
Calcium monofluoride ion(+1)	4.64E-08
Calcium mononitrate ion(+1)	1.51E-06
Calcium silicon dioxide dihydroxide	4.24E-07
Calcium sulfate	4.48E-09
Carbon dioxide	7.87E-08
Carbonate ion(-2)	1.71E-01
Chloride ion(-1)	4.29E+00
Dihydrogen hexafluorosilicate	1.01E-51
Dihydrogen orthosilicate ion(-2)	1.01E-02
Disodium fluoride ion(+1)	7.89E-02
Fluoride ion(-1)	2.32E-02
Hexafluorosilicon ion(-2)	2.02E-30
Hexasodium carbonate bissulfate	0.00E+00
Hydrofluoride, dimer	4.05E-21
Hydrogen bromide	6.70E-20
Hydrogen chloride	2.77E-15
Hydrogen difluoride ion (-1)	5.14E-11
Hydrogen fluoride	2.28E-10
Hydrogen hexafluorosilicate ion(-1)	1.16E-39
Hydrogen ion(+1)	2.08E-11
Hydroxide ion(-1)	2.13E-03
Magnesium bicarbonate ion(+1)	5.94E-10
Magnesium carbonate	3.08E-08
Magnesium dihydrogen orthosilicate	4.15E-07
Magnesium hydrogen metasilicate ion(+	1.17E-07
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	5.59E-08
Magnesium ion(+2)	9.26E-10
Magnesium monofluoride ion(+1)	7.95E-10
Magnesium sulfate	2.58E-10
Nitrate ion(-1)	3.12E+00
Nitric acid	4.41E-14
Silicon dioxide (amorphous)	2.12E-03
Silicon tetrachloride	1.47E-81
Sodium bicarbonate	3.60E-04
Sodium bromide	5.57E-01
Sodium carbonate ion(-1)	6.16E-02

Sodium chloride	0.00E+00
Sodium fluoride	2.42E-02
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	2.94E+00
Sodium ion(+1)	9.87E+00
Sodium nitrate	7.36E-01
Sodium sulfate ion(-1)	9.74E-20
Sulfate ion(-2)	1.26E-04
Sulfur trioxide	1.81E-35
Sulfuric(VI) acid	1.40E-32
Tetrafluorosilane	2.39E-32
Trihydrogen silicate ion(-1)	2.14E-01

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3276	1.29E-02	55.3147	0	0	5.5508E+01	4292.6301
Calcium carbonate (calcite)	1.19E-03	1.46E-10	0	1.19E-03	0	6.2540E-07	
Calcium fluoride	5.73E-05	0.00E+00	0	5.73E-05	0	0.0000E+00	
Calcium sulfate	3.95E-04	3.11E-08	0.00E+00	3.95E-04	0	1.3334E-04	
Carbon dioxide	1.60E-03	1.52E-11	1.60E-03	0	0	6.5219E-08	
Magnesium carbonate	4.35E-12	4.35E-12	0	0	0	1.8664E-08	
Sodium chloride	1.44E-03	0	0	1.44E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	6.31E-04	4.30E-07	0	6.30E-04	0	1.8439E-03	
Hydrofluoride, dimer	9.54E-21	1.33E-24	9.53E-21	0	0	5.6905E-21	
Calcium chloride	1.31E-10	1.31E-10	0	0.00E+00	0	5.6279E-07	
Calcium silicon dioxide dihydroxide	6.41E-11	6.41E-11	0.00E+00	0	0	2.7504E-07	
Dihydrogen hexafluorosilicate	1.66E-54	1.66E-54	0	0.00E+00	0	7.1116E-51	
Sulfuric(VI) acid	3.37E-27	9.37E-32	3.37E-27	0	0	4.0210E-28	
Hydrogen bromide	2.04E-10	6.45E-20	2.04E-10	0	0	2.7667E-16	
Hydrogen chloride	1.89E-07	8.12E-15	1.89E-07	0	0	3.4838E-11	
Hydrogen fluoride	3.70E-09	3.11E-13	3.70E-09	0	0	1.3339E-09	
Nitric acid	1.44E-10	4.13E-16	1.44E-10	0	0	1.7735E-12	
Magnesium hydroxide	2.03E-04	0.00E+00	0.00E+00	2.03E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	6.06E-11	6.06E-11	0.00E+00	0	0	2.5994E-07	
Magnesium sulfate	1.73E-09	1.73E-09	0.00E+00	0	0	7.4141E-06	
Sodium bromide	2.67E-05	2.67E-05	0	0.00E+00	0	1.1445E-01	
Sodium fluoride	2.63E-10	2.63E-10	0	0	0	1.1287E-06	
Sodium bicarbonate	2.53E-12	2.53E-12	0	0	0	1.0864E-08	
Sodium hydrogen metasilicate	2.14E-08	2.14E-08	0	0.00E+00	0	9.1871E-05	
Sodium nitrate	5.53E-06	5.53E-06	0	0	0	2.3757E-02	
Silicon tetrachloride	1.79E-54	3.50E-68	1.79E-54	0	0	1.5003E-64	
Tetrafluorosilane	4.84E-31	1.75E-35	4.84E-31	0	0	7.5205E-32	
Sulfur trioxide	1.82E-32	1.21E-34	1.81E-32	0	0	5.1955E-31	
Bromide ion (-1)	1.36E-04	1.36E-04	0.00E+00	0	0	5.8394E-01	
Calcium mononitrate ion(+1)	2.31E-04	2.31E-04	0	0	0	9.9169E-01	
Calcium ion(+2)	7.23E-04	7.23E-04	0	0	0	3.1051E+00	
Calcium monochloride ion(+1)	9.47E-05	9.47E-05	0	0	0	4.0655E-01	
Calcium monofluoride ion(+1)	9.97E-08	9.97E-08	0	0	0	4.2811E-04	
Calcium bicarbonate ion(+1)	6.63E-09	6.63E-09	0	0	0	2.8444E-05	
Calcium hydrogen silicate ion(+1)	1.38E-06	1.38E-06	0	0	0	5.9321E-03	
Calcium hydroxide ion(+1)	1.61E-07	1.61E-07	0	0	0	6.9284E-04	
Chloride ion(-1)	2.13E-03	2.13E-03	0	0	0	9.1436E+00	

Carbonate ion(-2)	5.15E-13	5.15E-13	0	0	0	2.2086E-09
Fluoride ion(-1)	3.10E-09	3.10E-09	0	0	0	1.3302E-05
Hydrogen ion(+1)	2.24E-11	2.24E-11	0	0	0	9.6107E-08
Dihydrogen orthosilicate ion(-2)	3.33E-14	3.33E-14	0	0	0	1.4313E-10
Trihydrogen silicate ion(-1)	3.68E-09	3.68E-09	0	0	0	1.5800E-05
Bicarbonate ion(-1)	1.18E-11	1.18E-11	0	0	0	5.0467E-08
Hydrogen difluoride ion (-1)	2.02E-18	2.02E-18	0	0	0	8.6729E-15
Hydrogen hexafluorosilicate ion(-1)	5.43E-46	5.43E-46	0	0	0	2.3311E-42
Bisulfate(VI) ion (-1)	2.75E-14	2.75E-14	0	0	0	1.1826E-10
Magnesium ion(+2)	6.98E-06	6.98E-06	0	0	0	2.9961E-02
Magnesium monofluoride ion(+1)	1.65E-09	1.65E-09	0	0	0	7.0647E-06
Magnesium bicarbonate ion(+1)	5.42E-10	5.42E-10	0	0	0	2.3262E-06
Magnesium hydrogen metasilicate ion(+1)	1.66E-07	1.66E-07	0	0	0	7.1314E-04
Magnesium hydroxide ion(+1)	8.12E-08	8.12E-08	0	0	0	3.4836E-04
Sodium ion(+1)	4.83E-04	4.83E-04	0	0	0	2.0747E+00
Disodium fluoride ion(+1)	4.05E-10	4.05E-10	0	0	0	1.7393E-06
Sodium carbonate ion(-1)	1.24E-13	1.24E-13	0	0	0	5.3376E-10
Sodium sulfate ion(-1)	6.52E-46	6.52E-46	0	0	0	2.7987E-42
Nitrate ion(-1)	5.36E-06	5.36E-06	0	0	0	2.3003E-02
Hydroxide ion(-1)	7.01E-10	7.01E-10	0	0	0	3.0106E-06
Hexafluorosilicon ion(-2)	3.44E-40	3.44E-40	0	0	0	1.4756E-36
Sulfate ion(-2)	6.84E-08	6.84E-08	0	0	0	2.9377E-04

Species Output (True Species)

Aqu UZ-14/1277.7	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	5.05E-08
Bisulfate(VI) ion (-1)	1.18E-10
Bromide ion (-1)	5.84E-01
Calcium bicarbonate ion(+1)	2.84E-05
Calcium carbonate (calcite)	6.25E-07
Calcium chloride	5.63E-07
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	5.93E-03
Calcium hydroxide ion(+1)	6.93E-04
Calcium ion(+2)	3.11E+00
Calcium monochloride ion(+1)	4.07E-01
Calcium monofluoride ion(+1)	4.28E-04
Calcium mononitrate ion(+1)	9.92E-01
Calcium silicon dioxide dihydroxide	2.75E-07
Calcium sulfate	1.33E-04
Carbon dioxide	6.52E-08
Carbonate ion(-2)	2.21E-09
Chloride ion(-1)	9.14E+00
Dihydrogen hexafluorosilicate	7.11E-51
Dihydrogen orthosilicate ion(-2)	1.43E-10
Disodium fluoride ion(+1)	1.74E-06
Fluoride ion(-1)	1.33E-05
Hexafluorosilicon ion(-2)	1.48E-36
Hydrofluoride, dimer	5.69E-21
Hydrogen bromide	2.77E-16
Hydrogen chloride	3.48E-11
Hydrogen difluoride ion (-1)	8.67E-15
Hydrogen fluoride	1.33E-09
Hydrogen hexafluorosilicate ion(-1)	2.33E-42
Hydrogen ion(+1)	9.61E-08
Hydroxide ion(-1)	3.01E-06
Magnesium bicarbonate ion(+1)	2.33E-06
Magnesium carbonate	1.87E-08
Magnesium dihydrogen orthosilicate	2.60E-07
Magnesium hydrogen metasilicate ion(+1	7.13E-04
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	3.48E-04
Magnesium ion(+2)	3.00E-02
Magnesium monofluoride ion(+1)	7.06E-06
Magnesium sulfate	7.41E-06
Nitrate ion(-1)	2.30E-02
Nitric acid	1.77E-12
Silicon dioxide (amorphous)	1.84E-03
Silicon tetrachloride	1.50E-64
Sodium bicarbonate	1.09E-08
Sodium bromide	1.14E-01
Sodium carbonate ion(-1)	5.34E-10

Sodium chloride	0.00E+00
Sodium fluoride	1.13E-06
Sodium hydrogen metasilicate	9.19E-05
Sodium ion(+1)	2.07E+00
Sodium nitrate	2.38E-02
Sodium sulfate ion(-1)	2.80E-42
Sulfate ion(-2)	2.94E-04
Sulfur trioxide	5.20E-31
Sulfuric(VI) acid	4.02E-28
Tetrafluorosilane	7.52E-32
Trihydrogen silicate ion(-1)	1.58E-05

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3275	1.95E-03	55.3255	0	0	5.5508E+01	28410.5682
Calcium carbonate (calcite)	7.49E-04	3.49E-11	0	7.49E-04	0	9.9285E-07	
Calcium sulfate	7.55E-13	7.55E-13	0	0	0	2.1460E-08	
Carbon dioxide	1.38E-03	2.24E-12	1.38E-03	0	0	6.3581E-08	
Magnesium sulfate	3.62E-14	3.62E-14	0	0	0	1.0281E-09	
Sodium bromide	3.99E-05	3.99E-05	0	0	0	1.1337E+00	
Sodium chloride	1.98E-03	0	0	1.98E-03	0	0.0000E+00	
Sodium fluoride	5.01E-07	5.01E-07	0	0	0	1.4240E-02	
Sodium nitrate	2.26E-05	2.26E-05	0	0	0	6.4205E-01	
Silicon dioxide (amorphous)	8.77E-04	7.25E-08	0	8.77E-04	0	2.0608E-03	
Hydrofluoride, dimer	3.54E-21	1.18E-25	3.54E-21	0	0	3.3576E-21	
Hexasodium carbonate bissulfate	4.96E-04	0	0	4.96E-04	0	0.0000E+00	
Calcium chloride	2.15E-19	2.15E-19	0	0	0	6.1032E-15	
Calcium silicon dioxide dihydroxid	1.78E-11	1.78E-11	0	0	0	5.0682E-07	
Dihydrogen hexafluorosilicate	2.04E-56	2.04E-56	0	0	0	5.7962E-52	
Sulfuric(VI) acid	2.94E-31	1.96E-36	2.94E-31	0	0	5.5757E-32	
Hydrogen bromide	9.76E-14	7.40E-24	9.76E-14	0	0	2.1025E-19	
Hydrogen chloride	1.45E-11	1.49E-19	1.45E-11	0	0	4.2429E-15	
Hydrogen fluoride	2.25E-09	1.74E-14	2.25E-09	0	0	4.9329E-10	
Nitric acid	1.86E-12	1.45E-18	1.86E-12	0	0	4.1119E-14	
Magnesium hydroxide	2.88E-05	0	0	2.88E-05	0	0.0000E+00	
Magnesium carbonate	8.99E-13	8.99E-13	0	0	0	2.5528E-08	
Magnesium dihydrogen orthosilica	1.45E-11	1.45E-11	0	0	0	4.1266E-07	
Sodium fluoride sulfate	1.12E-04	0	0	1.12E-04	0	0.0000E+00	
Sodium bicarbonate	6.82E-09	6.82E-09	0	0	0	1.9369E-04	
Sodium hydrogen metasilicate	6.69E-05	6.69E-05	0	0	0	1.9012E+00	
Silicon tetrachloride	6.19E-71	2.90E-85	6.19E-71	0	0	8.2495E-81	
Tetrafluorosilane	6.68E-32	5.80E-37	6.68E-32	0	0	1.6492E-32	
Sulfur trioxide	1.58E-36	2.54E-39	1.58E-36	0	0	7.2043E-35	
Bromide ion (-1)	1.23E-04	1.23E-04	0	0	0	3.4885E+00	
Calcium mononitrate ion(+1)	1.26E-10	1.26E-10	0	0	0	3.5824E-06	
Calcium ion(+2)	4.06E-12	4.06E-12	0	0	0	1.1546E-07	
Calcium monochloride ion(+1)	1.78E-11	1.78E-11	0	0	0	5.0517E-07	
Calcium monofluoride ion(+1)	3.13E-12	3.13E-12	0	0	0	8.9050E-08	
Calcium bicarbonate ion(+1)	1.47E-13	1.47E-13	0	0	0	4.1891E-09	
Calcium hydrogen silicate ion(+1)	7.02E-11	7.02E-11	0	0	0	1.9955E-06	
Calcium hydroxide ion(+1)	8.04E-12	8.04E-12	0	0	0	2.2856E-07	

Chloride ion(-1)	1.37E-04	1.37E-04	0	0	0	3.9015E+00
Carbonate ion(-2)	1.54E-06	1.54E-06	0	0	0	4.3843E-02
Fluoride ion(-1)	4.26E-07	4.26E-07	0	0	0	1.2091E-02
Hydrogen ion(+1)	9.45E-16	9.45E-16	0	0	0	2.6852E-11
Dihydrogen orthosilicate ion(-2)	1.10E-07	1.10E-07	0	0	0	3.1338E-03
Trihydrogen silicate ion(-1)	4.44E-06	4.44E-06	0	0	0	1.2625E-01
Bicarbonate ion(-1)	5.31E-08	5.31E-08	0	0	0	1.5096E-03
Hydrogen difluoride ion (-1)	8.90E-16	8.90E-16	0	0	0	2.5291E-11
Hydrogen hexafluorosilicate ion(-1	1.32E-44	1.32E-44	0	0	0	3.7497E-40
Bisulfate(VI) ion (-1)	3.24E-15	3.24E-15	0	0	0	9.2140E-11
Magnesium ion(+2)	7.13E-14	7.13E-14	0	0	0	2.0247E-09
Magnesium monofluoride ion(+1)	4.46E-14	4.46E-14	0	0	0	1.2682E-09
Magnesium bicarbonate ion(+1)	3.47E-14	3.47E-14	0	0	0	9.8499E-10
Magnesium hydrogen metasilicate	7.27E-12	7.27E-12	0	0	0	2.0667E-07
Magnesium hydroxide ion(+1)	3.50E-12	3.50E-12	0	0	0	9.9537E-08
Sodium ion(+1)	3.25E-04	3.25E-04	0	0	0	9.2434E+00
Disodium fluoride ion(+1)	1.87E-06	1.87E-06	0	0	0	5.3051E-02
Sodium carbonate ion(-1)	6.59E-07	6.59E-07	0	0	0	1.8712E-02
Sodium sulfate ion(-1)	2.24E-22	2.24E-22	0	0	0	6.3597E-18
Nitrate ion(-1)	5.80E-05	5.80E-05	0	0	0	1.6489E+00
Hydroxide ion(-1)	5.60E-08	5.60E-08	0	0	0	1.5911E-03
Hexafluorosilicon ion(-2)	1.27E-35	1.27E-35	0	0	0	3.6108E-31
Sulfate ion(-2)	5.94E-08	5.94E-08	0	0	0	1.6870E-03

Species Output (True Species)

Aqu UZ-14/1409.4	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	1.51E-03
Bisulfate(VI) ion (-1)	9.21E-11
Bromide ion (-1)	3.49E+00
Calcium bicarbonate ion(+1)	4.19E-09
Calcium carbonate (calcite)	9.93E-07
Calcium chloride	6.10E-15
Calcium hydrogen silicate ion(+1)	2.00E-06
Calcium hydroxide ion(+1)	2.29E-07
Calcium ion(+2)	1.15E-07
Calcium monochloride ion(+1)	5.05E-07
Calcium monofluoride ion(+1)	8.91E-08
Calcium mononitrate ion(+1)	3.58E-06
Calcium silicon dioxide dihydroxide	5.07E-07
Calcium sulfate	2.15E-08
Carbon dioxide	6.36E-08
Carbonate ion(-2)	4.38E-02
Chloride ion(-1)	3.90E+00
Dihydrogen hexafluorosilicate	5.80E-52
Dihydrogen orthosilicate ion(-2)	3.13E-03
Disodium fluoride ion(+1)	5.31E-02
Fluoride ion(-1)	1.21E-02
Hexafluorosilicon ion(-2)	3.61E-31
Hexasodium carbonate bissulfate	0.00E+00
Hydrofluoride, dimer	3.36E-21
Hydrogen bromide	2.10E-19
Hydrogen chloride	4.24E-15
Hydrogen difluoride ion (-1)	2.53E-11
Hydrogen fluoride	4.93E-10
Hydrogen hexafluorosilicate ion(-1)	3.75E-40
Hydrogen ion(+1)	2.69E-11
Hydroxide ion(-1)	1.59E-03
Magnesium bicarbonate ion(+1)	9.85E-10
Magnesium carbonate	2.55E-08
Magnesium dihydrogen orthosilicate	4.13E-07
Magnesium hydrogen metasilicate ion(	2.07E-07
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	9.95E-08
Magnesium ion(+2)	2.02E-09
Magnesium monofluoride ion(+1)	1.27E-09
Magnesium sulfate	1.03E-09
Nitrate ion(-1)	1.65E+00
Nitric acid	4.11E-14
Silicon dioxide (amorphous)	2.06E-03
Silicon tetrachloride	8.25E-81
Sodium bicarbonate	1.94E-04
Sodium bromide	1.13E+00
Sodium carbonate ion(-1)	1.87E-02

Sodium chloride	0.00E+00
Sodium fluoride	1.42E-02
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	1.90E+00
Sodium ion(+1)	9.24E+00
Sodium nitrate	6.42E-01
Sodium sulfate ion(-1)	6.36E-18
Sulfate ion(-2)	1.69E-03
Sulfur trioxide	7.20E-35
Sulfuric(VI) acid	5.58E-32
Tetrafluorosilane	1.65E-32
Trihydrogen silicate ion(-1)	1.26E-01

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3246	4.49E-03	55.3201	0	0	5.5508E+01	12357.9046
Calcium carbonate (calcite)	8.98E-05	5.87E-11	0	8.98E-05	0	7.2562E-07	
Calcium sulfate	6.34E-14	6.34E-14	0	0	0	7.8338E-10	
Carbon dioxide	3.27E-03	1.09E-11	3.27E-03	0	0	1.3487E-07	
Magnesium sulfate	7.23E-15	7.23E-15	0	0	0	8.9334E-11	
Sodium carbonate	3.57E-03	0	0	3.57E-03	0	0.0000E+00	
Sodium bromide	3.53E-05	3.53E-05	0	0	0	4.3578E-01	
Sodium fluoride	2.29E-06	2.29E-06	0	0	0	2.8259E-02	
Sodium nitrate	3.01E-05	3.01E-05	0	0	0	3.7178E-01	
Silicon dioxide (amorphous)	2.17E-03	1.50E-07	0	2.17E-03	0	1.8587E-03	
Sulfur trioxide	1.89E-37	5.07E-40	1.88E-37	0	0	6.2600E-36	
Hydrofluoride, dimer	8.44E-21	4.73E-25	8.44E-21	0	0	5.8409E-21	
Hexasodium carbonate bissulfate	9.68E-05	0	0	9.68E-05	0	0.0000E+00	
Calcium chloride	2.13E-19	2.13E-19	0	0	0	2.6285E-15	
Calcium silicon dioxide dihydroxide	1.26E-11	1.26E-11	0	0	0	1.5560E-07	
Dihydrogen hexafluorosilicate	4.62E-55	4.62E-55	0	0	0	5.7132E-51	
Sulfuric(VI) acid	3.50E-32	3.92E-37	3.50E-32	0	0	4.8447E-33	
Hydrogen bromide	2.92E-14	3.72E-24	2.92E-14	0	0	4.5917E-20	
Hydrogen chloride	1.72E-11	2.97E-19	1.72E-11	0	0	3.6725E-15	
Hydrogen fluoride	3.48E-09	9.28E-14	3.48E-09	0	0	1.1472E-09	
Nitric acid	3.14E-13	3.89E-19	3.14E-13	0	0	4.8036E-15	
Magnesium hydroxide	2.06E-05	0	0	2.06E-05	0	0.0000E+00	
Magnesium carbonate	3.59E-12	3.59E-12	0	0	0	4.4411E-08	
Magnesium dihydrogen orthosilicate	2.44E-11	2.44E-11	0	0	0	3.0159E-07	
Sodium fluoride sulfate	9.67E-05	0	0	9.67E-05	0	0.0000E+00	
Sodium bicarbonate	4.80E-08	4.80E-08	0	0	0	5.9303E-04	
Sodium hydrogen metasilicate	1.98E-04	1.98E-04	0	0	0	2.4454E+00	
Silicon tetrachloride	1.22E-70	9.60E-85	1.22E-70	0	0	1.1863E-80	
Tetrafluorosilane	3.79E-31	5.53E-36	3.79E-31	0	0	6.8294E-32	
Bromide ion (-1)	1.27E-04	1.27E-04	0	0	0	1.5748E+00	
Calcium mononitrate ion(+1)	1.57E-11	1.57E-11	0	0	0	1.9340E-07	
Calcium ion(+2)	2.39E-12	2.39E-12	0	0	0	2.9526E-08	
Calcium monochloride ion(+1)	7.21E-12	7.21E-12	0	0	0	8.9069E-08	
Calcium monofluoride ion(+1)	3.06E-12	3.06E-12	0	0	0	3.7776E-08	
Calcium bicarbonate ion(+1)	1.44E-13	1.44E-13	0	0	0	1.7768E-09	
Calcium hydrogen silicate ion(+1)	4.41E-11	4.41E-11	0	0	0	5.4551E-07	
Calcium hydroxide ion(+1)	5.11E-12	5.11E-12	0	0	0	6.3164E-08	

Chloride ion(-1)	5.64E-04	5.64E-04	0	0	0	6.9714E+00
Carbonate ion(-2)	2.10E-05	2.10E-05	0	0	0	2.5899E-01
Fluoride ion(-1)	2.34E-06	2.34E-06	0	0	0	2.8876E-02
Hydrogen ion(+1)	1.37E-15	1.37E-15	0	0	0	1.6975E-11
Dihydrogen orthosilicate ion(-2)	6.34E-07	6.34E-07	0	0	0	7.8374E-03
Trihydrogen silicate ion(-1)	1.54E-05	1.54E-05	0	0	0	1.9031E-01
Bicarbonate ion(-1)	2.67E-07	2.67E-07	0	0	0	3.3038E-03
Hydrogen difluoride ion (-1)	7.34E-15	7.34E-15	0	0	0	9.0749E-11
Hydrogen hexafluorosilicate ion(-1)	6.38E-43	6.38E-43	0	0	0	7.8805E-39
Bisulfate(VI) ion (-1)	1.34E-15	1.34E-15	0	0	0	1.6514E-11
Magnesium ion(+2)	7.86E-14	7.86E-14	0	0	0	9.7136E-10
Magnesium monofluoride ion(+1)	1.04E-13	1.04E-13	0	0	0	1.2833E-09
Magnesium bicarbonate ion(+1)	7.43E-14	7.43E-14	0	0	0	9.1799E-10
Magnesium hydrogen metasilicate io	1.09E-11	1.09E-11	0	0	0	1.3450E-07
Magnesium hydroxide ion(+1)	5.40E-12	5.40E-12	0	0	0	6.6740E-08
Sodium ion(+1)	7.86E-04	7.86E-04	0	0	0	9.7164E+00
Disodium fluoride ion(+1)	1.35E-05	1.35E-05	0	0	0	1.6628E-01
Sodium carbonate ion(-1)	9.82E-06	9.82E-06	0	0	0	1.2141E-01
Sodium sulfate ion(-1)	2.48E-35	2.48E-35	0	0	0	3.0669E-31
Nitrate ion(-1)	3.44E-05	3.44E-05	0	0	0	4.2543E-01
Hydroxide ion(-1)	2.28E-07	2.28E-07	0	0	0	2.8191E-03
Hexafluorosilicon ion(-2)	9.86E-34	9.86E-34	0	0	0	1.2180E-29
Sulfate ion(-2)	1.24E-06	1.24E-06	0	0	0	1.5339E-02

Species Output (True Species)

Aqu UZ-14/1542.3	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	3.30E-03
Bisulfate(VI) ion (-1)	1.65E-11
Bromide ion (-1)	1.57E+00
Calcium bicarbonate ion(+1)	1.78E-09
Calcium carbonate (calcite)	7.26E-07
Calcium chloride	2.63E-15
Calcium hydrogen silicate ion(+1)	5.46E-07
Calcium hydroxide ion(+1)	6.32E-08
Calcium ion(+2)	2.95E-08
Calcium monochloride ion(+1)	8.91E-08
Calcium monofluoride ion(+1)	3.78E-08
Calcium mononitrate ion(+1)	1.93E-07
Calcium silicon dioxide dihydroxide	1.56E-07
Calcium sulfate	7.83E-10
Carbon dioxide	1.35E-07
Carbonate ion(-2)	2.59E-01
Chloride ion(-1)	6.97E+00
Dihydrogen hexafluorosilicate	5.71E-51
Dihydrogen orthosilicate ion(-2)	7.84E-03
Disodium fluoride ion(+1)	1.66E-01
Fluoride ion(-1)	2.89E-02
Hexafluorosilicon ion(-2)	1.22E-29
Hexasodium carbonate bissulfate	0.00E+00
Hydrofluoride, dimer	5.84E-21
Hydrogen bromide	4.59E-20
Hydrogen chloride	3.67E-15
Hydrogen difluoride ion (-1)	9.07E-11
Hydrogen fluoride	1.15E-09
Hydrogen hexafluorosilicate ion(-1)	7.88E-39
Hydrogen ion(+1)	1.70E-11
Hydroxide ion(-1)	2.82E-03
Magnesium bicarbonate ion(+1)	9.18E-10
Magnesium carbonate	4.44E-08
Magnesium dihydrogen orthosilicate	3.02E-07
Magnesium hydrogen metasilicate io	1.34E-07
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	6.67E-08
Magnesium ion(+2)	9.71E-10
Magnesium monofluoride ion(+1)	1.28E-09
Magnesium sulfate	8.93E-11
Nitrate ion(-1)	4.25E-01
Nitric acid	4.80E-15
Silicon dioxide (amorphous)	1.86E-03
Silicon tetrachloride	1.19E-80
Sodium bicarbonate	5.93E-04
Sodium bromide	4.36E-01
Sodium carbonate	0.00E+00

Sodium carbonate ion(-1)	1.21E-01
Sodium fluoride	2.83E-02
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	2.45E+00
Sodium ion(+1)	9.72E+00
Sodium nitrate	3.72E-01
Sodium sulfate ion(-1)	3.07E-31
Sulfate ion(-2)	1.53E-02
Sulfur trioxide	6.26E-36
Sulfuric(VI) acid	4.84E-33
Tetrafluorosilane	6.83E-32
Trihydrogen silicate ion(-1)	1.90E-01

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3284	1.38E-03	55.327	0	0	5.5508E+01	40355.6602
Calcium carbonate (calcite)	7.22E-05	2.83E-14	0	7.22E-05	0	1.1433E-09	
Calcium fluoride	5.74E-05	0	0	5.74E-05	0	0.0000E+00	
Calcium sulfate	1.23E-03	6.04E-12	0	1.23E-03	0	2.4376E-07	
Carbon dioxide	9.44E-04	1.31E-14	9.44E-04	0	0	5.2782E-10	
Magnesium carbonate	5.00E-16	5.00E-16	0	0	0	2.0169E-11	
Sodium chloride	1.74E-03	0	0	1.74E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	1.55E-03	8.17E-10	0	1.55E-03	0	3.2957E-05	
Sulfur trioxide	1.07E-32	1.39E-38	1.07E-32	0	0	5.6145E-34	
Hydrofluoride, dimer	5.64E-21	1.52E-28	5.64E-21	0	0	6.1495E-24	
Calcium chloride	3.14E-13	3.14E-13	0	0	0	1.2691E-08	
Calcium silicon dioxide dihydroxid	2.11E-14	2.11E-14	0	0	0	8.5062E-10	
Dihydrogen hexafluorosilicate	6.65E-59	6.65E-59	0	0	0	2.6854E-54	
Sulfuric(VI) acid	1.99E-27	1.08E-35	1.99E-27	0	0	4.3453E-31	
Hydrogen bromide	9.14E-09	5.62E-22	9.14E-09	0	0	2.2675E-17	
Hydrogen chloride	5.11E-07	4.26E-18	5.11E-07	0	0	1.7198E-13	
Hydrogen fluoride	2.84E-09	4.71E-17	2.84E-09	0	0	1.9005E-12	
Nitric acid	4.47E-08	2.48E-17	4.47E-08	0	0	1.0022E-12	
Magnesium hydroxide	4.36E-04	0	0	4.36E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilica	1.18E-14	1.18E-14	0	0	0	4.7520E-10	
Magnesium sulfate	1.99E-13	1.99E-13	0	0	0	8.0119E-09	
Sodium bromide	1.13E-05	8.61E-08	0	1.12E-05	0	3.4737E-03	
Sodium fluoride	1.46E-14	1.46E-14	0	0	0	5.8752E-10	
Sodium bicarbonate	1.08E-16	1.08E-16	0	0	0	4.3477E-12	
Sodium hydrogen metasilicate	1.54E-12	1.54E-12	0	0	0	6.2198E-08	
Sodium nitrate	7.29E-08	7.29E-08	0	0	0	2.9428E-03	
Silicon tetrachloride	9.50E-53	3.61E-70	9.50E-53	0	0	1.4582E-65	
Tetrafluorosilane	1.69E-31	1.19E-39	1.69E-31	0	0	4.8040E-35	
Bromide ion (-1)	1.51E-04	1.51E-04	0	0	0	6.1105E+00	
Calcium mononitrate ion(+1)	3.39E-04	3.39E-04	0	0	0	1.3663E+01	
Calcium ion(+2)	2.26E-04	2.26E-04	0	0	0	9.1276E+00	
Calcium monochloride ion(+1)	3.14E-15	3.14E-15	0	0	0	1.2675E-10	
Calcium monofluoride ion(+1)	3.73E-10	3.73E-10	0	0	0	1.5064E-05	
Calcium bicarbonate ion(+1)	6.65E-13	6.65E-13	0	0	0	2.6820E-08	
Calcium hydrogen silicate ion(+1)	6.73E-09	6.73E-09	0	0	0	2.7149E-04	
Calcium hydroxide ion(+1)	5.65E-11	5.65E-11	0	0	0	2.2810E-06	
Chloride ion(-1)	9.99E-04	9.99E-04	0	0	0	4.0314E+01	

Carbonate ion(-2)	8.62E-11	8.62E-11	0	0	0	3.4794E-06
Fluoride ion(-1)	1.19E-09	1.19E-09	0	0	0	4.7981E-05
Hydrogen ion(+1)	7.06E-40	7.06E-40	0	0	0	2.8476E-35
Dihydrogen orthosilicate ion(-2)	3.34E-12	3.34E-12	0	0	0	1.3478E-07
Trihydrogen silicate ion(-1)	1.48E-09	1.48E-09	0	0	0	5.9899E-05
Bicarbonate ion(-1)	1.11E-13	1.11E-13	0	0	0	4.4683E-09
Hydrogen difluoride ion (-1)	4.73E-19	4.73E-19	0	0	0	1.9085E-14
Hydrogen hexafluorosilicate ion(-	5.86E-46	5.86E-46	0	0	0	2.3666E-41
Bisulfate(VI) ion (-1)	2.48E-15	2.48E-15	0	0	0	9.9917E-11
Magnesium ion(+2)	9.13E-16	9.13E-16	0	0	0	3.6859E-11
Magnesium monofluoride ion(+1)	3.64E-12	3.64E-12	0	0	0	1.4694E-07
Magnesium bicarbonate ion(+1)	1.01E-13	1.01E-13	0	0	0	4.0634E-09
Magnesium hydrogen metasilicate	4.78E-10	4.78E-10	0	0	0	1.9293E-05
Magnesium hydroxide ion(+1)	1.68E-11	1.68E-11	0	0	0	6.7794E-07
Sodium ion(+1)	3.88E-04	3.88E-04	0	0	0	1.5652E+01
Disodium fluoride ion(+1)	1.23E-13	1.23E-13	0	0	0	4.9614E-09
Sodium carbonate ion(-1)	1.41E-13	1.41E-13	0	0	0	5.7075E-09
Sodium sulfate ion(-1)	1.83E-125	1.83E-125	0	0	0	7.3978E-121
Nitrate ion(-1)	9.06E-35	9.06E-35	0	0	0	3.6559E-30
Hydroxide ion(-1)	5.13E-10	5.13E-10	0	0	0	2.0692E-05
Hexafluorosilicon ion(-2)	1.12E-38	1.12E-38	0	0	0	4.5208E-34
Sulfate ion(-2)	1.42E-05	1.42E-05	0	0	0	5.7266E-01

Species Output (True Species)

Aqu UZ-14/178.1	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	4.47E-09
Bisulfate(VI) ion (-1)	9.99E-11
Bromide ion (-1)	6.11E+00
Calcium bicarbonate ion(+1)	2.68E-08
Calcium carbonate (calcite)	1.14E-09
Calcium chloride	1.27E-08
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	2.71E-04
Calcium hydroxide ion(+1)	2.28E-06
Calcium ion(+2)	9.13E+00
Calcium monochloride ion(+1)	1.27E-10
Calcium monofluoride ion(+1)	1.51E-05
Calcium mononitrate ion(+1)	1.37E+01
Calcium silicon dioxide dihydroxide	8.51E-10
Calcium sulfate	2.44E-07
Carbon dioxide	5.28E-10
Carbonate ion(-2)	3.48E-06
Chloride ion(-1)	4.03E+01
Dihydrogen hexafluorosilicate	2.69E-54
Dihydrogen orthosilicate ion(-2)	1.35E-07
Disodium fluoride ion(+1)	4.96E-09
Fluoride ion(-1)	4.80E-05
Hexafluorosilicon ion(-2)	4.52E-34
Hydrofluoride, dimer	6.15E-24
Hydrogen bromide	2.27E-17
Hydrogen chloride	1.72E-13
Hydrogen difluoride ion (-1)	1.91E-14
Hydrogen fluoride	1.90E-12
Hydrogen hexafluorosilicate ion(-1)	2.37E-41
Hydrogen ion(+1)	2.85E-35
Hydroxide ion(-1)	2.07E-05
Magnesium bicarbonate ion(+1)	4.06E-09
Magnesium carbonate	2.02E-11
Magnesium dihydrogen orthosilicate	4.75E-10
Magnesium hydrogen metasilicate ion(+1)	1.93E-05
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	6.78E-07
Magnesium ion(+2)	3.69E-11
Magnesium monofluoride ion(+1)	1.47E-07
Magnesium sulfate	8.01E-09
Nitrate ion(-1)	3.66E-30
Nitric acid	1.00E-12
Silicon dioxide (amorphous)	3.30E-05
Silicon tetrachloride	1.46E-65
Sodium bicarbonate	4.35E-12
Sodium bromide	3.47E-03
Sodium carbonate ion(-1)	5.71E-09

Sodium chloride	0.00E+00
Sodium fluoride	5.88E-10
Sodium hydrogen metasilicate	6.22E-08
Sodium ion(+1)	1.57E+01
Sodium nitrate	2.94E-03
Sodium sulfate ion(-1)	7.40E-121
Sulfate ion(-2)	5.73E-01
Sulfur trioxide	5.61E-34
Sulfuric(VI) acid	4.35E-31
Tetrafluorosilane	4.80E-35
Trihydrogen silicate ion(-1)	5.99E-05

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3276	3.25E-03	55.3244	0	0	5.5508E+01	17055.9262
Calcium sulfate	5.71E-14	5.71E-14	0	0	0	9.7413E-10	
Carbon dioxide	2.22E-03	5.55E-12	2.22E-03	0	0	9.4611E-08	
Magnesium carbonate	2.20E-12	2.20E-12	0	0	0	3.7452E-08	
Sodium carbonate	2.11E-03	0	0	2.11E-03	0	0.0000E+00	
Sodium bromide	3.55E-05	3.55E-05	0	0	0	6.0499E-01	
Sodium chloride	4.21E-04	0	0	4.21E-04	0	0.0000E+00	
Sodium fluoride	2.06E-06	2.06E-06	0	0	0	3.5140E-02	
Sodium nitrate	4.00E-05	4.00E-05	0	0	0	6.8303E-01	
Silicon dioxide (amorphous)	5.63E-04	1.11E-07	0	5.63E-04	0	1.8998E-03	
Hydrofluoride, dimer	5.72E-21	2.89E-25	5.72E-21	0	0	4.9258E-21	
Hexasodium carbonate bissulfate	1.57E-05	0	0	1.57E-05	0	0.0000E+00	
Calcium chloride	4.41E-20	4.41E-20	0	0	0	7.5226E-16	
Calcium carbonate (calcite)	1.50E-05	5.29E-11	0	1.50E-05	0	9.0230E-07	
Calcium silicon dioxide dihydroxide	1.67E-11	1.67E-11	0	0	0	2.8531E-07	
Dihydrogen hexafluorosilicate	1.30E-55	1.30E-55	0	0	0	2.2160E-51	
Sulfuric(VI) acid	2.37E-32	2.40E-37	2.37E-32	0	0	4.0857E-33	
Hydrogen bromide	2.68E-14	3.08E-24	2.68E-14	0	0	5.2496E-20	
Hydrogen chloride	6.80E-12	1.06E-19	6.80E-12	0	0	1.8042E-15	
Hydrogen fluoride	2.86E-09	1.94E-14	2.86E-09	0	0	3.3168E-10	
Nitric acid	1.18E-12	1.41E-18	1.18E-12	0	0	2.3999E-14	
Magnesium hydroxide	4.11E-06	0	0	4.11E-06	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	2.20E-11	2.20E-11	0	0	0	3.7503E-07	
Magnesium sulfate	4.42E-15	4.42E-15	0	0	0	7.5334E-11	
Sodium fluoride sulfate	1.03E-04	0	0	1.03E-04	0	0.0000E+00	
Sodium bicarbonate	3.56E-08	3.56E-08	0	0	0	6.0729E-04	
Sodium hydrogen metasilicate	2.16E-04	2.16E-04	0	0	0	3.6925E+00	
Silicon tetrachloride	2.97E-72	2.11E-86	2.97E-72	0	0	3.5938E-82	
Tetrafluorosilane	1.74E-31	2.29E-36	1.74E-31	0	0	3.9058E-32	
Sulfur trioxide	1.28E-37	3.10E-40	1.28E-37	0	0	5.2791E-36	
Bromide ion (-1)	1.27E-04	1.27E-04	0	0	0	2.1699E+00	
Calcium mononitrate ion(+1)	3.22E-11	3.22E-11	0	0	0	5.4934E-07	
Calcium ion(+2)	1.54E-12	1.54E-12	0	0	0	2.6190E-08	
Calcium monochloride ion(+1)	3.92E-12	3.92E-12	0	0	0	6.6794E-08	
Calcium monofluoride ion(+1)	1.76E-12	1.76E-12	0	0	0	3.0052E-08	
Calcium bicarbonate ion(+1)	9.11E-14	9.11E-14	0	0	0	1.5536E-09	
Calcium hydrogen silicate ion(+1)	3.06E-11	3.06E-11	0	0	0	5.2127E-07	

Calcium hydroxide ion(+1)	3.59E-12	3.59E-12	0	0	0	6.1305E-08
Chloride ion(-1)	2.42E-04	2.42E-04	0	0	0	4.1212E+00
Carbonate ion(-2)	2.49E-05	2.49E-05	0	0	0	4.2394E-01
Fluoride ion(-1)	2.13E-06	2.13E-06	0	0	0	3.6383E-02
Hydrogen ion(+1)	8.45E-16	8.45E-16	0	0	0	1.4421E-11
Dihydrogen orthosilicate ion(-2)	1.11E-06	1.11E-06	0	0	0	1.8889E-02
Trihydrogen silicate ion(-1)	1.67E-05	1.67E-05	0	0	0	2.8527E-01
Bicarbonate ion(-1)	3.48E-07	3.48E-07	0	0	0	5.9434E-03
Hydrogen difluoride ion (-1)	5.41E-15	5.41E-15	0	0	0	9.2253E-11
Hydrogen hexafluorosilicate ion(-1)	2.23E-43	2.23E-43	0	0	0	3.7955E-39
Bisulfate(VI) ion (-1)	9.84E-16	9.84E-16	0	0	0	1.6787E-11
Magnesium ion(+2)	3.58E-14	3.58E-14	0	0	0	6.1078E-10
Magnesium monofluoride ion(+1)	4.06E-14	4.06E-14	0	0	0	6.9286E-10
Magnesium bicarbonate ion(+1)	3.01E-14	3.01E-14	0	0	0	5.1375E-10
Magnesium hydrogen metasilicate ion(+1)	5.11E-12	5.11E-12	0	0	0	8.7157E-08
Magnesium hydroxide ion(+1)	2.61E-12	2.61E-12	0	0	0	4.4505E-08
Sodium ion(+1)	5.92E-04	5.92E-04	0	0	0	1.0092E+01
Disodium fluoride ion(+1)	7.76E-06	7.76E-06	0	0	0	1.3238E-01
Sodium carbonate ion(-1)	9.07E-06	9.07E-06	0	0	0	1.5462E-01
Sodium sulfate ion(-1)	6.81E-24	6.81E-24	0	0	0	1.1618E-19
Nitrate ion(-1)	1.50E-04	1.50E-04	0	0	0	2.5628E+00
Hydroxide ion(-1)	1.15E-07	1.15E-07	0	0	0	1.9546E-03
Hexafluorosilicon ion(-2)	5.37E-34	5.37E-34	0	0	0	9.1558E-30
Sulfate ion(-2)	2.01E-08	2.01E-08	0	0	0	3.4264E-04

Species Output (True Species)

Aqu UZ-14/1825.8	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	0.005943393
Bisulfate(VI) ion (-1)	1.67872E-11
Bromide ion (-1)	2.169923149
Calcium bicarbonate ion(+1)	1.55358E-09
Calcium carbonate (calcite)	9.02299E-07
Calcium chloride	7.52262E-16
Calcium hydrogen silicate ion(+1)	5.21267E-07
Calcium hydroxide ion(+1)	6.13053E-08
Calcium ion(+2)	2.61902E-08
Calcium monochloride ion(+1)	6.67944E-08
Calcium monofluoride ion(+1)	3.00519E-08
Calcium mononitrate ion(+1)	5.49341E-07
Calcium silicon dioxide dihydroxide	2.85315E-07
Calcium sulfate	9.74125E-10
Carbon dioxide	9.46111E-08
Carbonate ion(-2)	0.423940395
Chloride ion(-1)	4.121206381
Dihydrogen hexafluorosilicate	2.21596E-51
Dihydrogen orthosilicate ion(-2)	0.018888585
Disodium fluoride ion(+1)	0.132380935
Fluoride ion(-1)	0.036382508
Hexafluorosilicon ion(-2)	9.15576E-30
Hexasodium carbonate bissulfate	0
Hydrofluoride, dimer	4.92579E-21
Hydrogen bromide	5.24964E-20
Hydrogen chloride	1.80423E-15
Hydrogen difluoride ion (-1)	9.22526E-11
Hydrogen fluoride	3.31678E-10
Hydrogen hexafluorosilicate ion(-1)	3.79552E-39
Hydrogen ion(+1)	1.44206E-11
Hydroxide ion(-1)	0.001954575
Magnesium bicarbonate ion(+1)	5.1375E-10
Magnesium carbonate	3.74516E-08
Magnesium dihydrogen orthosilicate	3.75027E-07
Magnesium hydrogen metasilicate ion(+1)	8.71568E-08
Magnesium hydroxide	0
Magnesium hydroxide ion(+1)	4.45052E-08
Magnesium ion(+2)	6.10778E-10
Magnesium monofluoride ion(+1)	6.92863E-10
Magnesium sulfate	7.53345E-11
Nitrate ion(-1)	2.562823464
Nitric acid	2.39992E-14
Silicon dioxide (amorphous)	0.001899774
Silicon tetrachloride	3.59384E-82
Sodium bicarbonate	0.00060729
Sodium bromide	0.604987346
Sodium carbonate	0

Sodium carbonate ion(-1)	0.154618111
Sodium chloride	0
Sodium fluoride	0.035140154
Sodium fluoride sulfate	0
Sodium hydrogen metasilicate	3.692522733
Sodium ion(+1)	10.09207679
Sodium nitrate	0.683030147
Sodium sulfate ion(-1)	1.16176E-19
Sulfate ion(-2)	0.00034264
Sulfur trioxide	5.27912E-36
Sulfuric(VI) acid	4.08566E-33
Tetrafluorosilane	3.90582E-32
Trihydrogen silicate ion(-1)	0.285268893

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3268	1.63E-03	55.3251	0	0	5.5508E+01	34072.3826
Calcium carbonate (calcite)	7.98E-05	2.60E-11	0	7.98E-05	0	8.8566E-07	
Carbon dioxide	3.41E-03	4.06E-12	3.41E-03	0	0	1.3825E-07	
Magnesium carbonate	1.65E-12	1.65E-12	0	0	0	5.6377E-08	
Sodium carbonate	7.57E-03	0	0	7.57E-03	0	0.0000E+00	
Sodium bromide	3.83E-05	3.83E-05	0	0	0	1.3035E+00	
Sodium chloride	7.98E-04	0	0	7.98E-04	0	0.0000E+00	
Sodium fluoride	1.01E-06	1.01E-06	0	0	0	3.4492E-02	
Sodium nitrate	1.28E-05	1.28E-05	0	0	0	4.3780E-01	
Silicon dioxide (amorphous)	5.35E-04	5.32E-08	0	5.35E-04	0	1.8130E-03	
Sulfur trioxide	1.96E-37	2.33E-40	1.96E-37	0	0	7.9466E-36	
Hydrofluoride, dimer	8.77E-21	2.18E-25	8.77E-21	0	0	7.4146E-21	
Hexasodium carbonate bissulfate	6.13E-05	0	0	6.13E-05	0	0.0000E+00	
Calcium chloride	2.17E-20	2.17E-20	0	0	0	7.3839E-16	
Calcium silicon dioxide dihydroxide	5.36E-12	5.36E-12	0	0	0	1.8261E-07	
Calcium sulfate	2.81E-14	2.81E-14	0	0	0	9.5616E-10	
Dihydrogen hexafluorosilicate	2.30E-55	2.30E-55	0	0	0	7.8449E-51	
Sulfuric(VI) acid	3.64E-32	1.80E-37	3.64E-32	0	0	6.1500E-33	
Hydrogen bromide	7.29E-14	4.11E-24	7.29E-14	0	0	1.4007E-19	
Hydrogen chloride	8.42E-12	6.44E-20	8.42E-12	0	0	2.1931E-15	
Hydrogen fluoride	3.55E-09	3.89E-14	3.55E-09	0	0	1.3255E-09	
Nitric acid	3.91E-13	2.17E-19	3.91E-13	0	0	7.4051E-15	
Magnesium hydroxide	8.23E-06	0	0	8.23E-06	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	1.08E-11	1.08E-11	0	0	0	3.6811E-07	
Magnesium sulfate	3.33E-15	3.33E-15	0	0	0	1.1340E-10	
Sodium fluoride sulfate	1.08E-04	0	0	1.08E-04	0	0.0000E+00	
Sodium bicarbonate	2.17E-08	2.17E-08	0	0	0	7.3818E-04	
Sodium hydrogen metasilicate	8.59E-05	8.59E-05	0	0	0	2.9267E+00	
Silicon tetrachloride	6.98E-72	2.43E-86	6.98E-72	0	0	8.2964E-82	
Tetrafluorosilane	4.10E-31	2.65E-36	4.10E-31	0	0	9.0165E-32	
Bromide ion (-1)	1.24E-04	1.24E-04	0	0	0	4.2399E+00	
Calcium mononitrate ion(+1)	6.42E-12	6.42E-12	0	0	0	2.1878E-07	
Calcium ion(+2)	3.53E-13	3.53E-13	0	0	0	1.2011E-08	
Calcium monochloride ion(+1)	2.20E-12	2.20E-12	0	0	0	7.4985E-08	
Calcium monofluoride ion(+1)	1.04E-12	1.04E-12	0	0	0	3.5492E-08	
Calcium bicarbonate ion(+1)	7.81E-14	7.81E-14	0	0	0	2.6602E-09	
Calcium hydrogen silicate ion(+1)	1.47E-11	1.47E-11	0	0	0	5.0169E-07	

Calcium hydroxide ion(+1)	1.79E-12	1.79E-12	0	0	0	6.0940E-08
Chloride ion(-1)	1.07E-04	1.07E-04	0	0	0	3.6615E+00
Carbonate ion(-2)	8.32E-06	8.32E-06	0	0	0	2.8338E-01
Fluoride ion(-1)	9.06E-07	9.06E-07	0	0	0	3.0885E-02
Hydrogen ion(+1)	4.16E-16	4.16E-16	0	0	0	1.4166E-11
Dihydrogen orthosilicate ion(-2)	2.45E-07	2.45E-07	0	0	0	8.3419E-03
Trihydrogen silicate ion(-1)	6.00E-06	6.00E-06	0	0	0	2.0453E-01
Bicarbonate ion(-1)	1.85E-07	1.85E-07	0	0	0	6.2884E-03
Hydrogen difluoride ion (-1)	2.98E-15	2.98E-15	0	0	0	1.0144E-10
Hydrogen hexafluorosilicate ion(-1)	2.68E-43	2.68E-43	0	0	0	9.1452E-39
Bisulfate(VI) ion (-1)	5.42E-16	5.42E-16	0	0	0	1.8458E-11
Magnesium ion(+2)	2.58E-14	2.58E-14	0	0	0	8.7764E-10
Magnesium monofluoride ion(+1)	3.68E-14	3.68E-14	0	0	0	1.2544E-09
Magnesium bicarbonate ion(+1)	3.89E-14	3.89E-14	0	0	0	1.3265E-09
Magnesium hydrogen metasilicate ion(+1)	3.78E-12	3.78E-12	0	0	0	1.2865E-07
Magnesium hydroxide ion(+1)	1.97E-12	1.97E-12	0	0	0	6.7190E-08
Sodium ion(+1)	2.72E-04	2.72E-04	0	0	0	9.2691E+00
Disodium fluoride ion(+1)	4.59E-06	4.59E-06	0	0	0	1.5627E-01
Sodium carbonate ion(-1)	3.76E-06	3.76E-06	0	0	0	1.2797E-01
Sodium sulfate ion(-1)	3.93E-22	3.93E-22	0	0	0	1.3388E-17
Nitrate ion(-1)	1.62E-05	1.62E-05	0	0	0	5.5131E-01
Hydroxide ion(-1)	8.11E-08	8.11E-08	0	0	0	2.7636E-03
Hexafluorosilicon ion(-2)	4.28E-34	4.28E-34	0	0	0	1.4584E-29
Sulfate ion(-2)	2.46E-07	2.46E-07	0	0	0	8.3933E-03

Species Output (True Species)

Aqu UZ-14/2014.7	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	6.29E-03
Bisulfate(VI) ion (-1)	1.85E-11
Bromide ion (-1)	4.24E+00
Calcium bicarbonate ion(+1)	2.66E-09
Calcium carbonate (calcite)	8.86E-07
Calcium chloride	7.38E-16
Calcium hydrogen silicate ion(+1)	5.02E-07
Calcium hydroxide ion(+1)	6.09E-08
Calcium ion(+2)	1.20E-08
Calcium monochloride ion(+1)	7.50E-08
Calcium monofluoride ion(+1)	3.55E-08
Calcium mononitrate ion(+1)	2.19E-07
Calcium silicon dioxide dihydroxide	1.83E-07
Calcium sulfate	9.56E-10
Carbon dioxide	1.38E-07
Carbonate ion(-2)	2.83E-01
Chloride ion(-1)	3.66E+00
Dihydrogen hexafluorosilicate	7.84E-51
Dihydrogen orthosilicate ion(-2)	8.34E-03
Disodium fluoride ion(+1)	1.56E-01
Fluoride ion(-1)	3.09E-02
Hexafluorosilicon ion(-2)	1.46E-29
Hexasodium carbonate bissulfate	0.00E+00
Hydrofluoride, dimer	7.41E-21
Hydrogen bromide	1.40E-19
Hydrogen chloride	2.19E-15
Hydrogen difluoride ion (-1)	1.01E-10
Hydrogen fluoride	1.33E-09
Hydrogen hexafluorosilicate ion(-1)	9.15E-39
Hydrogen ion(+1)	1.42E-11
Hydroxide ion(-1)	2.76E-03
Magnesium bicarbonate ion(+1)	1.33E-09
Magnesium carbonate	5.64E-08
Magnesium dihydrogen orthosilicate	3.68E-07
Magnesium hydrogen metasilicate ion(+1)	1.29E-07
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	6.72E-08
Magnesium ion(+2)	8.78E-10
Magnesium monofluoride ion(+1)	1.25E-09
Magnesium sulfate	1.13E-10
Nitrate ion(-1)	5.51E-01
Nitric acid	7.41E-15
Silicon dioxide (amorphous)	1.81E-03
Silicon tetrachloride	8.30E-82
Sodium bicarbonate	7.38E-04
Sodium bromide	1.30E+00
Sodium carbonate	0.00E+00

Sodium carbonate ion(-1)	1.28E-01
Sodium chloride	0.00E+00
Sodium fluoride	3.45E-02
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	2.93E+00
Sodium ion(+1)	9.27E+00
Sodium nitrate	4.38E-01
Sodium sulfate ion(-1)	1.34E-17
Sulfate ion(-2)	8.39E-03
Sulfur trioxide	7.95E-36
Sulfuric(VI) acid	6.15E-33
Tetrafluorosilane	9.02E-32
Trihydrogen silicate ion(-1)	2.05E-01

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3282	2.45E-03	55.3257	0	0	5.5508E+01	22696.3462
Calcium carbonate (calcite)	5.30E-04	4.44E-11	0	5.30E-04	0	1.0069E-06	
Calcium fluoride	5.74E-05	0	0	5.74E-05	0	0.0000E+00	
Carbon dioxide	1.62E-03	3.67E-12	1.62E-03	0	0	8.3193E-08	
Magnesium carbonate	1.34E-12	1.34E-12	0	0	0	3.0421E-08	
Sodium bromide	3.03E-05	3.03E-05	0	0	0	6.8826E-01	
Sodium chloride	1.45E-03	0	0	1.45E-03	0	0.0000E+00	
Sodium nitrate	3.74E-05	3.74E-05	0	0	0	8.4811E-01	
Silicon dioxide (amorphous)	1.49E-03	1.01E-07	0	1.49E-03	0	2.3015E-03	
Sulfur trioxide	1.84E-32	3.73E-35	1.83E-32	0	0	8.4684E-31	
Hydrofluoride, dimer	9.66E-21	4.09E-25	9.66E-21	0	0	9.2752E-21	
Calcium chloride	1.34E-13	1.34E-13	0	0	0	3.0444E-09	
Calcium silicon dioxide dihydroxide	1.93E-11	1.93E-11	0	0	0	4.3737E-07	
Calcium sulfate	6.87E-04	9.46E-09	0	6.87E-04	0	2.1466E-04	
Dihydrogen hexafluorosilicate	5.23E-55	5.23E-55	0	0	0	1.1882E-50	
Sulfuric(VI) acid	3.41E-27	2.89E-32	3.41E-27	0	0	6.5540E-28	
Hydrogen bromide	4.44E-11	4.28E-21	4.44E-11	0	0	9.7038E-17	
Hydrogen chloride	1.10E-08	1.44E-16	1.10E-08	0	0	3.2713E-12	
Hydrogen fluoride	3.72E-09	1.07E-14	3.72E-09	0	0	2.4220E-10	
Nitric acid	3.92E-09	4.04E-15	3.92E-09	0	0	9.1634E-11	
Magnesium hydroxide	5.43E-04	0	0	5.43E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	1.84E-11	1.84E-11	0	0	0	4.1848E-07	
Magnesium sulfate	5.32E-10	5.32E-10	0	0	0	1.2085E-05	
Sodium fluoride	1.38E-09	1.38E-09	0	0	0	3.1349E-05	
Sodium bicarbonate	1.34E-11	1.34E-11	0	0	0	3.0360E-07	
Sodium hydrogen metasilicate	1.12E-07	1.12E-07	0	0	0	2.5359E-03	
Silicon tetrachloride	2.07E-59	1.23E-73	2.07E-59	0	0	2.7952E-69	
Tetrafluorosilane	4.96E-31	5.47E-36	4.96E-31	0	0	1.2410E-31	
Bromide ion (-1)	1.32E-04	1.32E-04	0	0	0	3.0043E+00	
Calcium mononitrate ion(+1)	1.53E-04	1.53E-04	0	0	0	3.4830E+00	
Calcium ion(+2)	1.73E-06	1.73E-06	0	0	0	3.9328E-02	
Calcium monochloride ion(+1)	3.69E-06	3.69E-06	0	0	0	8.3829E-02	
Calcium monofluoride ion(+1)	3.74E-09	3.74E-09	0	0	0	8.4779E-05	
Calcium bicarbonate ion(+1)	1.23E-10	1.23E-10	0	0	0	2.7921E-06	
Calcium hydrogen silicate ion(+1)	5.14E-08	5.14E-08	0	0	0	1.1675E-03	
Calcium hydroxide ion(+1)	4.52E-09	4.52E-09	0	0	0	1.0249E-04	
Chloride ion(-1)	2.36E-04	2.36E-04	0	0	0	5.3486E+00	

Carbonate ion(-2)	5.96E-12	5.96E-12	0	0	0	1.3530E-07
Fluoride ion(-1)	1.58E-09	1.58E-09	0	0	0	3.5840E-05
Hydrogen ion(+1)	7.27E-13	7.27E-13	0	0	0	1.6500E-08
Dihydrogen orthosilicate ion(-2)	4.37E-13	4.37E-13	0	0	0	9.9287E-09
Trihydrogen silicate ion(-1)	1.01E-08	1.01E-08	0	0	0	2.3036E-04
Bicarbonate ion(-1)	8.94E-11	8.94E-11	0	0	0	2.0285E-06
Hydrogen difluoride ion (-1)	5.54E-18	5.54E-18	0	0	0	1.2575E-13
Hydrogen hexafluorosilicate ion(-1)	5.27E-46	5.27E-46	0	0	0	1.1961E-41
Bisulfate(VI) ion (-1)	5.78E-14	5.78E-14	0	0	0	1.3108E-09
Magnesium ion(+2)	1.28E-08	1.28E-08	0	0	0	2.9135E-04
Magnesium monofluoride ion(+1)	6.24E-11	6.24E-11	0	0	0	1.4164E-06
Magnesium bicarbonate ion(+1)	3.12E-11	3.12E-11	0	0	0	7.0908E-07
Magnesium hydrogen metasilicate ioı	6.26E-09	6.26E-09	0	0	0	1.4209E-04
Magnesium hydroxide ion(+1)	2.30E-09	2.30E-09	0	0	0	5.2173E-05
Sodium ion(+1)	3.71E-04	3.71E-04	0	0	0	8.4270E+00
Disodium fluoride ion(+1)	4.52E-09	4.52E-09	0	0	0	1.0251E-04
Sodium carbonate ion(-1)	2.02E-12	2.02E-12	0	0	0	4.5809E-08
Sodium sulfate ion(-1)	1.51E-29	1.51E-29	0	0	0	3.4223E-25
Nitrate ion(-1)	1.64E-04	1.64E-04	0	0	0	3.7216E+00
Hydroxide ion(-1)	6.28E-11	6.28E-11	0	0	0	1.4260E-06
Hexafluorosilicon ion(-2)	1.04E-39	1.04E-39	0	0	0	2.3592E-35
Sulfate ion(-2)	2.02E-10	2.02E-10	0	0	0	4.5816E-06

Species Output (True Species)

Aqu UZ-14/85.2-85.6	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	2.03E-06
Bisulfate(VI) ion (-1)	1.31E-09
Bromide ion (-1)	3.00E+00
Calcium bicarbonate ion(+1)	2.79E-06
Calcium carbonate (calcite)	1.01E-06
Calcium chloride	3.04E-09
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	1.17E-03
Calcium hydroxide ion(+1)	1.02E-04
Calcium ion(+2)	3.93E-02
Calcium monochloride ion(+1)	8.38E-02
Calcium monofluoride ion(+1)	8.48E-05
Calcium mononitrate ion(+1)	3.48E+00
Calcium silicon dioxide dihydroxide	4.37E-07
Calcium sulfate	2.15E-04
Carbon dioxide	8.32E-08
Carbonate ion(-2)	1.35E-07
Chloride ion(-1)	5.35E+00
Dihydrogen hexafluorosilicate	1.19E-50
Dihydrogen orthosilicate ion(-2)	9.93E-09
Disodium fluoride ion(+1)	1.03E-04
Fluoride ion(-1)	3.58E-05
Hexafluorosilicon ion(-2)	2.36E-35
Hydrofluoride, dimer	9.28E-21
Hydrogen bromide	9.70E-17
Hydrogen chloride	3.27E-12
Hydrogen difluoride ion (-1)	1.26E-13
Hydrogen fluoride	2.42E-10
Hydrogen hexafluorosilicate ion(-1)	1.20E-41
Hydrogen ion(+1)	1.65E-08
Hydroxide ion(-1)	1.43E-06
Magnesium bicarbonate ion(+1)	7.09E-07
Magnesium carbonate	3.04E-08
Magnesium dihydrogen orthosilicate	4.18E-07
Magnesium hydrogen metasilicate ion(+1)	1.42E-04
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	5.22E-05
Magnesium ion(+2)	2.91E-04
Magnesium monofluoride ion(+1)	1.42E-06
Magnesium sulfate	1.21E-05
Nitrate ion(-1)	3.72E+00
Nitric acid	9.16E-11
Silicon dioxide (amorphous)	2.30E-03
Silicon tetrachloride	2.80E-69
Sodium bicarbonate	3.04E-07
Sodium bromide	6.88E-01
Sodium carbonate ion(-1)	4.58E-08

Sodium chloride	0.00E+00
Sodium fluoride	3.13E-05
Sodium hydrogen metasilicate	2.54E-03
Sodium ion(+1)	8.43E+00
Sodium nitrate	8.48E-01
Sodium sulfate ion(-1)	3.42E-25
Sulfate ion(-2)	4.58E-06
Sulfur trioxide	8.47E-31
Sulfuric(VI) acid	6.55E-28
Tetrafluorosilane	1.24E-31
Trihydrogen silicate ion(-1)	2.30E-04

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.33	1.27E-03	55.3287	0	0	5.5508E+01	43675.1041
Calcium carbonate (calcite)	7.00E-04	1.94E-11	0	7.00E-04	0	8.4565E-07	
Magnesium sulfate	1.49E-10	1.49E-10	0	0	0	6.5192E-06	
Sodium bromide	3.50E-05	3.50E-05	0	0	0	1.5269E+00	
Sodium chloride	3.41E-04	0	0	3.41E-04	0	0.0000E+00	
Sodium fluoride	5.49E-09	5.49E-09	0	0	0	2.3979E-04	
Silicon dioxide (amorphous)	1.28E-04	4.34E-08	0	1.28E-04	0	1.8943E-03	
Sulfur trioxide	1.18E-32	1.05E-35	1.18E-32	0	0	4.5685E-31	
Hydrofluoride, dimer	6.20E-21	1.15E-25	6.20E-21	0	0	5.0037E-21	
Calcium chloride	7.06E-16	7.06E-16	0	0	0	3.0828E-11	
Calcium fluoride	5.74E-05	0	0	5.74E-05	0	0.0000E+00	
Calcium silicon dioxide dihydroxi	1.31E-11	1.31E-11	0	0	0	5.7191E-07	
Calcium sulfate	3.65E-04	4.13E-09	0	3.65E-04	0	1.8029E-04	
Carbon dioxide	1.04E-03	9.50E-13	1.04E-03	0	0	4.1510E-08	
Dihydrogen hexafluorosilicate	6.05E-56	6.05E-56	0	0	0	2.6444E-51	
Sulfuric(VI) acid	2.19E-27	8.10E-33	2.19E-27	0	0	3.5357E-28	
Hydrogen bromide	1.03E-11	4.34E-22	1.03E-11	0	0	1.8945E-17	
Hydrogen chloride	9.72E-10	5.54E-18	9.72E-10	0	0	2.4178E-13	
Hydrogen fluoride	2.98E-09	3.38E-14	2.98E-09	0	0	1.4744E-09	
Glaserite	3.01E-05	0	0	3.01E-05	0	0.0000E+00	
Potassium chloride	1.26E-06	1.26E-06	0	0	0	5.5154E-02	
Potassium bisulfate(VI)	5.56E-15	5.56E-15	0	0	0	2.4270E-10	
Magnesium hydroxide	1.69E-04	0	0	1.69E-04	0	0.0000E+00	
Magnesium carbonate	3.76E-13	3.76E-13	0	0	0	1.6411E-08	
Magnesium dihydrogen orthosilic	8.05E-12	8.05E-12	0	0	0	3.5148E-07	
Sodium sulfate	1.89E-03	0	0	1.89E-03	0	0.0000E+00	
Sodium bicarbonate	4.26E-11	4.26E-11	0	0	0	1.8612E-06	
Sodium hydrogen metasilicate	5.54E-07	5.54E-07	0	0	0	2.4203E-02	
Silicon tetrachloride	1.24E-63	3.22E-78	1.24E-63	0	0	1.4079E-73	
Tetrafluorosilane	2.05E-31	9.85E-37	2.05E-31	0	0	4.3003E-32	
Bromide ion (-1)	1.28E-04	1.28E-04	0	0	0	5.5788E+00	
Calcium ion(+2)	6.54E-09	6.54E-09	0	0	0	2.8580E-04	
Calcium monochloride ion(+1)	5.76E-08	5.76E-08	0	0	0	2.5170E-03	
Calcium monofluoride ion(+1)	2.62E-10	2.62E-10	0	0	0	1.1443E-05	
Calcium bicarbonate ion(+1)	8.32E-12	8.32E-12	0	0	0	3.6347E-07	
Calcium hydrogen silicate ion(+1	4.50E-09	4.50E-09	0	0	0	1.9658E-04	
Calcium hydroxide ion(+1)	4.85E-10	4.85E-10	0	0	0	2.1164E-05	

Chloride ion(-1)	9.48E-05	9.48E-05	0	0	0	4.1402E+00
Carbonate ion(-2)	1.15E-10	1.15E-10	0	0	0	5.0314E-06
Fluoride ion(-1)	4.23E-09	4.23E-09	0	0	0	1.8490E-04
Hydrogen ion(+1)	2.66E-14	2.66E-14	0	0	0	1.1633E-09
Dihydrogen orthosilicate ion(-2)	1.72E-11	1.72E-11	0	0	0	7.5117E-07
Trihydrogen silicate ion(-1)	4.98E-08	4.98E-08	0	0	0	2.1761E-03
Bicarbonate ion(-1)	3.46E-10	3.46E-10	0	0	0	1.5101E-05
Hydrogen difluoride ion (-1)	1.31E-17	1.31E-17	0	0	0	5.7250E-13
Hydrogen hexafluorosilicate ion(-	6.45E-46	6.45E-46	0	0	0	2.8167E-41
Bisulfate(VI) ion (-1)	2.03E-13	2.03E-13	0	0	0	8.8751E-09
Potassium ion(+1)	5.52E-05	5.52E-05	0	0	0	2.4104E+00
Potassium sulfate(VI) ion(-1)	1.73E-06	1.73E-06	0	0	0	7.5649E-02
Magnesium ion(+2)	1.04E-10	1.04E-10	0	0	0	4.5317E-06
Magnesium monofluoride ion(+1)	2.81E-12	2.81E-12	0	0	0	1.2280E-07
Magnesium bicarbonate ion(+1)	1.25E-12	1.25E-12	0	0	0	5.4564E-08
Magnesium hydrogen metasilicat	3.52E-10	3.52E-10	0	0	0	1.5368E-05
Magnesium hydroxide ion(+1)	1.58E-10	1.58E-10	0	0	0	6.9200E-06
Sodium ion(+1)	1.77E-04	1.77E-04	0	0	0	7.7481E+00
Disodium fluoride ion(+1)	2.63E-08	2.63E-08	0	0	0	1.1477E-03
Sodium carbonate ion(-1)	6.80E-11	6.80E-11	0	0	0	2.9706E-06
Sodium sulfate ion(-1)	2.62E-23	2.62E-23	0	0	0	1.1424E-18
Hydroxide ion(-1)	1.70E-09	1.70E-09	0	0	0	7.4361E-05
Hexafluorosilicon ion(-2)	8.79E-39	8.79E-39	0	0	0	3.8399E-34
Sulfate ion(-2)	4.19E-06	4.19E-06	0	0	0	1.8291E-01

Species Output (True Species)

Aqu UZ/14C	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	1.51E-05
Bisulfate(VI) ion (-1)	8.88E-09
Bromide ion (-1)	5.58E+00
Calcium bicarbonate ion(+1)	3.63E-07
Calcium carbonate (calcite)	8.46E-07
Calcium chloride	3.08E-11
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	1.97E-04
Calcium hydroxide ion(+1)	2.12E-05
Calcium ion(+2)	2.86E-04
Calcium monochloride ion(+1)	2.52E-03
Calcium monofluoride ion(+1)	1.14E-05
Calcium silicon dioxide dihydroxide	5.72E-07
Calcium sulfate	1.80E-04
Carbon dioxide	4.15E-08
Carbonate ion(-2)	5.03E-06
Chloride ion(-1)	4.14E+00
Dihydrogen hexafluorosilicate	2.64E-51
Dihydrogen orthosilicate ion(-2)	7.51E-07
Disodium fluoride ion(+1)	1.15E-03
Fluoride ion(-1)	1.85E-04
Glaserite	0.00E+00
Hexafluorosilicon ion(-2)	3.84E-34
Hydrofluoride, dimer	5.00E-21
Hydrogen bromide	1.89E-17
Hydrogen chloride	2.42E-13
Hydrogen difluoride ion (-1)	5.73E-13
Hydrogen fluoride	1.47E-09
Hydrogen hexafluorosilicate ion(-1)	2.82E-41
Hydrogen ion(+1)	1.16E-09
Hydroxide ion(-1)	7.44E-05
Magnesium bicarbonate ion(+1)	5.46E-08
Magnesium carbonate	1.64E-08
Magnesium dihydrogen orthosilicate	3.51E-07
Magnesium hydrogen metasilicate ion(+	1.54E-05
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	6.92E-06
Magnesium ion(+2)	4.53E-06
Magnesium monofluoride ion(+1)	1.23E-07
Magnesium sulfate	6.52E-06
Potassium bisulfate(VI)	2.43E-10
Potassium chloride	5.52E-02
Potassium ion(+1)	2.41E+00
Potassium sulfate(VI) ion(-1)	7.56E-02
Silicon dioxide (amorphous)	1.89E-03
Silicon tetrachloride	1.41E-73
Sodium bicarbonate	1.86E-06

Sodium bromide	1.53E+00
Sodium carbonate ion(-1)	2.97E-06
Sodium chloride	0.00E+00
Sodium fluoride	2.40E-04
Sodium hydrogen metasilicate	2.42E-02
Sodium ion(+1)	7.75E+00
Sodium sulfate	0.00E+00
Sodium sulfate ion(-1)	1.14E-18
Sulfate ion(-2)	1.83E-01
Sulfur trioxide	4.57E-31
Sulfuric(VI) acid	3.54E-28
Tetrafluorosilane	4.30E-32
Trihydrogen silicate ion(-1)	2.18E-03

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.328	6.26E-03	55.3217	0	0	5.5508E+01	8866.002
Calcium carbonate (calcite)	4.24E-04	1.06E-10	0	4.24E-04	0	9.3809E-07	
Carbon dioxide	8.70E-04	4.51E-12	8.70E-04	0	0	4.0007E-08	
Magnesium carbonate	1.72E-12	1.72E-12	0	0	0	1.5259E-08	
Sodium carbonate	3.18E-04	0	0	3.18E-04	0	0.0000E+00	
Sodium bromide	3.29E-05	3.29E-05	0	0	0	2.9171E-01	
Sodium chloride	1.05E-03	0	0	1.05E-03	0	0.0000E+00	
Sodium fluoride	4.12E-06	4.12E-06	0	0	0	3.6534E-02	
Sodium nitrate	7.04E-05	7.04E-05	0	0	0	6.2402E-01	
Silicon dioxide (amorphous)	2.77E-04	2.32E-07	0	2.77E-04	0	2.0532E-03	
Sulfur trioxide	5.02E-38	2.43E-40	5.00E-38	0	0	2.1510E-36	
Hydrofluoride, dimer	2.24E-21	2.26E-25	2.24E-21	0	0	2.0071E-21	
Hexasodium carbonate bissulfate	7.35E-05	0	0	7.35E-05	0	0.0000E+00	
Calcium chloride	8.82E-20	8.82E-20	0	0	0	7.8211E-16	
Calcium silicon dioxide dihydroxide	8.54E-11	8.54E-11	0	0	0	7.5692E-07	
Calcium sulfate	1.14E-13	1.14E-13	0	0	0	1.0128E-09	
Dihydrogen hexafluorosilicate	1.56E-56	1.56E-56	0	0	0	1.3868E-52	
Sulfuric(VI) acid	9.30E-33	1.88E-37	9.30E-33	0	0	1.6647E-33	
Hydrogen bromide	7.79E-15	1.79E-24	7.79E-15	0	0	1.5846E-20	
Hydrogen chloride	4.25E-12	1.32E-19	4.25E-12	0	0	1.1743E-15	
Hydrogen fluoride	1.79E-09	3.50E-14	1.79E-09	0	0	3.1027E-10	
Nitric acid	5.27E-13	1.24E-18	5.27E-13	0	0	1.0976E-14	
Magnesium hydroxide	9.87E-05	0	0	9.87E-05	0	0.0000E+00	
Magnesium dihydrogen orthosilicat	4.40E-11	4.40E-11	0	0	0	3.8990E-07	
Magnesium sulfate	3.46E-15	3.46E-15	0	0	0	3.0694E-11	
Sodium fluoride sulfate	9.24E-05	0	0	9.24E-05	0	0.0000E+00	
Sodium bicarbonate	4.46E-08	4.46E-08	0	0	0	3.9526E-04	
Sodium hydrogen metasilicate	6.92E-04	6.92E-04	0	0	0	6.1325E+00	
Silicon tetrachloride	4.56E-73	6.47E-87	4.56E-73	0	0	5.7387E-83	
Tetrafluorosilane	2.67E-32	7.03E-37	2.67E-32	0	0	6.2368E-33	
Bromide ion (-1)	1.30E-04	1.30E-04	0	0	0	1.1507E+00	
Calcium mononitrate ion(+1)	4.33E-11	4.33E-11	0	0	0	3.8393E-07	
Calcium ion(+2)	3.97E-12	3.97E-12	0	0	0	3.5204E-08	
Calcium monochloride ion(+1)	5.34E-12	5.34E-12	0	0	0	4.7370E-08	
Calcium monofluoride ion(+1)	3.11E-12	3.11E-12	0	0	0	2.7546E-08	
Calcium bicarbonate ion(+1)	1.00E-13	1.00E-13	0	0	0	8.8885E-10	
Calcium hydrogen silicate ion(+1)	8.35E-11	8.35E-11	0	0	0	7.4001E-07	

Calcium hydroxide ion(+1)	1.09E-11	1.09E-11	0	0	0	9.6816E-08
Chloride ion(-1)	5.30E-04	5.30E-04	0	0	0	4.6959E+00
Carbonate ion(-2)	5.47E-05	5.47E-05	0	0	0	4.8532E-01
Fluoride ion(-1)	4.52E-06	4.52E-06	0	0	0	4.0112E-02
Hydrogen ion(+1)	1.08E-15	1.08E-15	0	0	0	9.5855E-12
Dihydrogen orthosilicate ion(-2)	6.34E-06	6.34E-06	0	0	0	5.6221E-02
Trihydrogen silicate ion(-1)	5.85E-05	5.85E-05	0	0	0	5.1899E-01
Bicarbonate ion(-1)	3.92E-07	3.92E-07	0	0	0	3.4772E-03
Hydrogen difluoride ion (-1)	7.42E-15	7.42E-15	0	0	0	6.5774E-11
Hydrogen hexafluorosilicate ion(-1)	4.43E-44	4.43E-44	0	0	0	3.9289E-40
Bisulfate(VI) ion (-1)	1.35E-15	1.35E-15	0	0	0	1.1969E-11
Magnesium ion(+2)	3.83E-14	3.83E-14	0	0	0	3.3918E-10
Magnesium monofluoride ion(+1)	2.81E-14	2.81E-14	0	0	0	2.4908E-10
Magnesium bicarbonate ion(+1)	1.15E-14	1.15E-14	0	0	0	1.0222E-10
Magnesium hydrogen metasilicate i	5.47E-12	5.47E-12	0	0	0	4.8489E-08
Magnesium hydroxide ion(+1)	3.13E-12	3.13E-12	0	0	0	2.7718E-08
Sodium ion(+1)	1.07E-03	1.07E-03	0	0	0	9.4922E+00
Disodium fluoride ion(+1)	1.37E-05	1.37E-05	0	0	0	1.2144E-01
Sodium carbonate ion(-1)	1.87E-05	1.87E-05	0	0	0	1.6542E-01
Sodium sulfate ion(-1)	8.25E-26	8.25E-26	0	0	0	7.3165E-22
Nitrate ion(-1)	2.20E-04	2.20E-04	0	0	0	1.9498E+00
Hydroxide ion(-1)	4.74E-07	4.74E-07	0	0	0	4.2062E-03
Hexafluorosilicon ion(-2)	1.85E-34	1.85E-34	0	0	0	1.6403E-30
Sulfate ion(-2)	1.08E-07	1.08E-07	0	0	0	9.5628E-04

Species Output (True Species)

Aqu UZ-16/1343.7	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	3.48E-03
Bisulfate(VI) ion (-1)	1.20E-11
Bromide ion (-1)	1.15E+00
Calcium bicarbonate ion(+1)	8.89E-10
Calcium carbonate (calcite)	9.38E-07
Calcium chloride	7.82E-16
Calcium hydrogen silicate ion(+1)	7.40E-07
Calcium hydroxide ion(+1)	9.68E-08
Calcium ion(+2)	3.52E-08
Calcium monochloride ion(+1)	4.74E-08
Calcium monofluoride ion(+1)	2.75E-08
Calcium mononitrate ion(+1)	3.84E-07
Calcium silicon dioxide dihydroxide	7.57E-07
Calcium sulfate	1.01E-09
Carbon dioxide	4.00E-08
Carbonate ion(-2)	4.85E-01
Chloride ion(-1)	4.70E+00
Dihydrogen hexafluorosilicate	1.39E-52
Dihydrogen orthosilicate ion(-2)	5.62E-02
Disodium fluoride ion(+1)	1.21E-01
Fluoride ion(-1)	4.01E-02
Hexafluorosilicon ion(-2)	1.64E-30
Hexasodium carbonate bissulfate	0.00E+00
Hydrofluoride, dimer	2.01E-21
Hydrogen bromide	1.58E-20
Hydrogen chloride	1.17E-15
Hydrogen difluoride ion (-1)	6.58E-11
Hydrogen fluoride	3.10E-10
Hydrogen hexafluorosilicate ion(-1)	3.93E-40
Hydrogen ion(+1)	9.59E-12
Hydroxide ion(-1)	4.21E-03
Magnesium bicarbonate ion(+1)	1.02E-10
Magnesium carbonate	1.53E-08
Magnesium dihydrogen orthosilicate	3.90E-07
Magnesium hydrogen metasilicate ion(+1)	4.85E-08
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	2.77E-08
Magnesium ion(+2)	3.39E-10
Magnesium monofluoride ion(+1)	2.49E-10
Magnesium sulfate	3.07E-11
Nitrate ion(-1)	1.95E+00
Nitric acid	1.10E-14
Silicon dioxide (amorphous)	2.05E-03
Silicon tetrachloride	5.74E-83
Sodium bicarbonate	3.95E-04
Sodium bromide	2.92E-01
Sodium carbonate	0.00E+00

Sodium carbonate ion(-1)	1.65E-01
Sodium chloride	0.00E+00
Sodium fluoride	3.65E-02
Sodium fluoride sulfate	0.00E+00
Sodium hydrogen metasilicate	6.13E+00
Sodium ion(+1)	9.49E+00
Sodium nitrate	6.24E-01
Sodium sulfate ion(-1)	7.32E-22
Sulfate ion(-2)	9.56E-04
Sulfur trioxide	2.15E-36
Sulfuric(VI) acid	1.66E-33
Tetrafluorosilane	6.24E-33
Trihydrogen silicate ion(-1)	5.19E-01

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3271	4.60E-03	55.3225	0	0	5.5508E+01	12067.8223
Calcium carbonate (calcite)	1.53E-03	5.68E-11	0	1.53E-03	0	6.8535E-07	
Calcium fluoride	5.73E-05	0	0	5.73E-05	0	0.0000E+00	
Calcium sulfate	2.91E-04	1.21E-08	0	2.91E-04	0	1.4612E-04	
Carbon dioxide	2.51E-03	8.84E-12	2.51E-03	0	0	1.0672E-07	
Magnesium carbonate	2.67E-12	2.67E-12	0	0	0	3.2176E-08	
Sodium chloride	1.23E-03	0	0	1.23E-03	0	0.0000E+00	
Silicon dioxide (amorphous)	1.16E-03	1.59E-07	0	1.16E-03	0	1.9141E-03	
Hydrofluoride, dimer	1.50E-20	8.13E-25	1.50E-20	0	0	9.8101E-21	
Calcium chloride	4.72E-11	4.72E-11	0	0	0	5.6958E-07	
Calcium silicon dioxide dihydroxic	1.59E-11	1.59E-11	0	0	0	1.9159E-07	
Dihydrogen hexafluorosilicate	2.51E-54	2.51E-54	0	0	0	3.0341E-50	
Sulfuric(VI) acid	5.30E-27	5.74E-32	5.30E-27	0	0	6.9320E-28	
Hydrogen bromide	6.09E-10	7.51E-20	6.09E-10	0	0	9.0596E-16	
Hydrogen chloride	2.28E-07	3.81E-15	2.28E-07	0	0	4.6017E-11	
Hydrogen fluoride	4.64E-09	1.52E-13	4.64E-09	0	0	1.8307E-09	
Nitric acid	2.33E-10	2.61E-16	2.33E-10	0	0	3.1490E-12	
Magnesium hydroxide	4.90E-04	0	0	4.90E-04	0	0.0000E+00	
Magnesium dihydrogen orthosilic:	2.36E-11	2.36E-11	0	0	0	2.8486E-07	
Magnesium sulfate	1.06E-09	1.06E-09	0	0	0	1.2782E-05	
Sodium bromide	2.58E-05	2.58E-05	0	0	0	3.1093E-01	
Sodium fluoride	1.07E-10	1.07E-10	0	0	0	1.2871E-06	
Sodium bicarbonate	1.29E-12	1.29E-12	0	0	0	1.5538E-08	
Sodium hydrogen metasilicate	6.92E-09	6.92E-09	0	0	0	8.3526E-05	
Sodium nitrate	2.79E-06	2.79E-06	0	0	0	3.3674E-02	
Silicon tetrachloride	3.77E-54	2.88E-68	3.77E-54	0	0	3.4703E-64	
Tetrafluorosilane	1.20E-30	1.69E-35	1.20E-30	0	0	2.0396E-31	
Sulfur trioxide	2.86E-32	7.42E-35	2.85E-32	0	0	8.9569E-31	
Bromide ion (-1)	1.37E-04	1.37E-04	0	0	0	1.6524E+00	
Calcium mononitrate ion(+1)	1.24E-04	1.24E-04	0	0	0	1.4979E+00	
Calcium ion(+2)	2.10E-04	2.10E-04	0	0	0	2.5359E+00	
Calcium monochloride ion(+1)	5.52E-05	5.52E-05	0	0	0	6.6585E-01	
Calcium monofluoride ion(+1)	4.16E-08	4.16E-08	0	0	0	5.0170E-04	
Calcium bicarbonate ion(+1)	3.29E-09	3.29E-09	0	0	0	3.9758E-05	
Calcium hydrogen silicate ion(+1)	4.59E-07	4.59E-07	0	0	0	5.5425E-03	
Calcium hydroxide ion(+1)	5.17E-08	5.17E-08	0	0	0	6.2356E-04	
Chloride ion(-1)	6.91E-04	6.91E-04	0	0	0	8.3365E+00	

Carbonate ion(-2)	1.53E-13	1.53E-13	0	0	0	1.8436E-09
Fluoride ion(-1)	8.66E-10	8.66E-10	0	0	0	1.0452E-05
Hydrogen ion(+1)	1.01E-11	1.01E-11	0	0	0	1.2238E-07
Dihydrogen orthosilicate ion(-2)	6.66E-15	6.66E-15	0	0	0	8.0406E-11
Trihydrogen silicate ion(-1)	1.13E-09	1.13E-09	0	0	0	1.3649E-05
Bicarbonate ion(-1)	6.35E-12	6.35E-12	0	0	0	7.6592E-08
Hydrogen difluoride ion (-1)	9.86E-19	9.86E-19	0	0	0	1.1895E-14
Hydrogen hexafluorosilicate ion(-	5.09E-46	5.09E-46	0	0	0	6.1407E-42
Bisulfate(VI) ion (-1)	1.26E-14	1.26E-14	0	0	0	1.5169E-10
Magnesium ion(+2)	3.75E-06	3.75E-06	0	0	0	4.5242E-02
Magnesium monofluoride ion(+1)	1.08E-09	1.08E-09	0	0	0	1.3025E-05
Magnesium bicarbonate ion(+1)	4.85E-10	4.85E-10	0	0	0	5.8480E-06
Magnesium hydrogen metasilicat	8.69E-08	8.69E-08	0	0	0	1.0482E-03
Magnesium hydroxide ion(+1)	4.09E-08	4.09E-08	0	0	0	4.9322E-04
Sodium ion(+1)	2.22E-04	2.22E-04	0	0	0	2.6803E+00
Disodium fluoride ion(+1)	1.83E-10	1.83E-10	0	0	0	2.2071E-06
Sodium carbonate ion(-1)	3.91E-14	3.91E-14	0	0	0	4.7136E-10
Sodium sulfate ion(-1)	3.53E-43	3.53E-43	0	0	0	4.2571E-39
Nitrate ion(-1)	2.11E-06	2.11E-06	0	0	0	2.5431E-02
Hydroxide ion(-1)	1.47E-10	1.47E-10	0	0	0	1.7766E-06
Hexafluorosilicon ion(-2)	2.08E-40	2.08E-40	0	0	0	2.5049E-36
Sulfate ion(-2)	1.42E-08	1.42E-08	0	0	0	1.7185E-04

Species Output (True Species)

Aqu UZ-16/1643.4	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	7.66E-08
Bisulfate(VI) ion (-1)	1.52E-10
Bromide ion (-1)	1.65E+00
Calcium bicarbonate ion(+1)	3.98E-05
Calcium carbonate (calcite)	6.85E-07
Calcium chloride	5.70E-07
Calcium fluoride	0.00E+00
Calcium hydrogen silicate ion(+1)	5.54E-03
Calcium hydroxide ion(+1)	6.24E-04
Calcium ion(+2)	2.54E+00
Calcium monochloride ion(+1)	6.66E-01
Calcium monofluoride ion(+1)	5.02E-04
Calcium mononitrate ion(+1)	1.50E+00
Calcium silicon dioxide dihydroxide	1.92E-07
Calcium sulfate	1.46E-04
Carbon dioxide	1.07E-07
Carbonate ion(-2)	1.84E-09
Chloride ion(-1)	8.34E+00
Dihydrogen hexafluorosilicate	3.03E-50
Dihydrogen orthosilicate ion(-2)	8.04E-11
Disodium fluoride ion(+1)	2.21E-06
Fluoride ion(-1)	1.05E-05
Hexafluorosilicon ion(-2)	2.50E-36
Hydrofluoride, dimer	9.81E-21
Hydrogen bromide	9.06E-16
Hydrogen chloride	4.60E-11
Hydrogen difluoride ion (-1)	1.19E-14
Hydrogen fluoride	1.83E-09
Hydrogen hexafluorosilicate ion(-1)	6.14E-42
Hydrogen ion(+1)	1.22E-07
Hydroxide ion(-1)	1.78E-06
Magnesium bicarbonate ion(+1)	5.85E-06
Magnesium carbonate	3.22E-08
Magnesium dihydrogen orthosilicate	2.85E-07
Magnesium hydrogen metasilicate ion(+1)	1.05E-03
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	4.93E-04
Magnesium ion(+2)	4.52E-02
Magnesium monofluoride ion(+1)	1.30E-05
Magnesium sulfate	1.28E-05
Nitrate ion(-1)	2.54E-02
Nitric acid	3.15E-12
Silicon dioxide (amorphous)	1.91E-03
Silicon tetrachloride	3.47E-64
Sodium bicarbonate	1.55E-08
Sodium bromide	3.11E-01
Sodium carbonate ion(-1)	4.71E-10

Sodium chloride	0.00E+00
Sodium fluoride	1.29E-06
Sodium hydrogen metasilicate	8.35E-05
Sodium ion(+1)	2.68E+00
Sodium nitrate	3.37E-02
Sodium sulfate ion(-1)	4.26E-39
Sulfate ion(-2)	1.72E-04
Sulfur trioxide	8.96E-31
Sulfuric(VI) acid	6.93E-28
Tetrafluorosilane	2.04E-31
Trihydrogen silicate ion(-1)	1.36E-05

Species Output (True Species)

	Total mol	Aqueous mol	Vapor mol	Solid mol	2nd Liquid n/a	mol/kg	Conc. Factor
Water	55.3292	7.56E-03	55.3217	0	0	5.5508E+01	7346.098
Calcium carbonate (calcite)	3.97E-04	1.03E-10	0	3.97E-04	0	7.6012E-07	
Calcium sulfate	1.12E-13	1.12E-13	0	0	0	8.2063E-10	
Carbon dioxide	1.46E-03	8.83E-12	1.46E-03	0	0	6.4837E-08	
Potassium chloride	5.26E-06	5.26E-06	0	0	0	3.8671E-02	
Magnesium carbonate	2.83E-12	2.83E-12	0	0	0	2.0794E-08	
Sodium carbonate	1.68E-04	0	0	1.68E-04	0	0.0000E+00	
Sodium fluoride	1.67E-05	1.67E-05	0	0	0	1.2237E-01	
Sodium nitrate	5.72E-06	5.72E-06	0	0	0	4.2042E-02	
Silicon dioxide (amorphous)	3.60E-07	3.60E-07	0	0	0	2.6464E-03	
Hydrofluoride, dimer	6.44E-20	6.36E-24	6.44E-20	0	0	4.6735E-20	
Hexasodium carbonate bissulfate	2.62E-05	0	0	2.62E-05	0	0.0000E+00	
Calcium chloride	2.29E-19	2.29E-19	0	0	0	1.6788E-15	
Calcium silicon dioxide dihydroxide	6.46E-11	6.46E-11	0	0	0	4.7462E-07	
Dihydrogen hexafluorosilicate	4.72E-52	4.72E-52	0	0	0	3.4708E-48	
Sulfuric(VI) acid	1.56E-32	3.09E-37	1.56E-32	0	0	2.2686E-33	
Hydrogen bromide	9.08E-15	2.04E-24	9.08E-15	0	0	1.4971E-20	
Hydrogen chloride	8.98E-12	2.73E-19	8.98E-12	0	0	2.0084E-15	
Hydrogen fluoride	9.61E-09	5.76E-13	9.61E-09	0	0	4.2288E-09	
Nitric acid	7.15E-15	1.46E-20	7.15E-15	0	0	1.0744E-16	
Potassium bisulfate(VI)	1.79E-17	1.79E-17	0	0	0	1.3144E-13	
Magnesium hydroxide	2.47E-05	0	0	2.47E-05	0	0.0000E+00	
Magnesium dihydrogen orthosilicate	5.60E-11	5.60E-11	0	0	0	4.1117E-07	
Magnesium sulfate	5.69E-15	5.69E-15	0	0	0	4.1828E-11	
Sodium bromide	2.89E-05	2.89E-05	0	0	0	2.1252E-01	
Sodium bicarbonate	5.65E-08	5.65E-08	0	0	0	4.1534E-04	
Sodium hydrogen metasilicate	6.79E-04	6.79E-04	0	0	0	4.9867E+00	
Silicon tetrachloride	1.18E-71	1.64E-85	1.18E-71	0	0	1.2012E-81	
Tetrafluorosilane	2.87E-29	7.39E-34	2.87E-29	0	0	5.4317E-30	
Sulfur trioxide	8.44E-38	3.99E-40	8.41E-38	0	0	2.9312E-36	
Bromide ion (-1)	1.34E-04	1.34E-04	0	0	0	9.8265E-01	
Calcium mononitrate ion(+1)	8.03E-13	8.03E-13	0	0	0	5.8956E-09	
Calcium ion(+2)	4.05E-12	4.05E-12	0	0	0	2.9764E-08	
Calcium monochloride ion(+1)	5.31E-12	5.31E-12	0	0	0	3.9006E-08	
Calcium monofluoride ion(+1)	1.79E-11	1.79E-11	0	0	0	1.3171E-07	
Calcium bicarbonate ion(+1)	1.59E-13	1.59E-13	0	0	0	1.1717E-09	
Calcium hydrogen silicate ion(+1)	1.18E-10	1.18E-10	0	0	0	8.6972E-07	

Calcium hydroxide ion(+1)	1.12E-11	1.12E-11	0	0	0	8.1997E-08
Chloride ion(-1)	1.00E-03	1.00E-03	0	0	0	7.3793E+00
Carbonate ion(-2)	4.28E-05	4.28E-05	0	0	0	3.1413E-01
Fluoride ion(-1)	1.81E-05	1.81E-05	0	0	0	1.3308E-01
Hydrogen ion(+1)	1.40E-15	1.40E-15	0	0	0	1.0265E-11
Dihydrogen orthosilicate ion(-2)	4.95E-06	4.95E-06	0	0	0	3.6344E-02
Trihydrogen silicate ion(-1)	7.15E-05	7.15E-05	0	0	0	5.2502E-01
Bicarbonate ion(-1)	3.12E-07	3.12E-07	0	0	0	2.2952E-03
Hydrogen difluoride ion (-1)	1.73E-13	1.73E-13	0	0	0	1.2726E-09
Hydrogen hexafluorosilicate ion(-1)	1.10E-39	1.10E-39	0	0	0	8.0532E-36
Bisulfate(VI) ion (-1)	1.84E-15	1.84E-15	0	0	0	1.3552E-11
Potassium ion(+1)	1.65E-04	1.65E-04	0	0	0	1.2099E+00
Potassium sulfate(VI) ion(-1)	1.40E-06	1.40E-06	0	0	0	1.0299E-02
Magnesium ion(+2)	5.46E-14	5.46E-14	0	0	0	4.0112E-10
Magnesium monofluoride ion(+1)	2.76E-13	2.76E-13	0	0	0	2.0263E-09
Magnesium bicarbonate ion(+1)	2.93E-14	2.93E-14	0	0	0	2.1508E-10
Magnesium hydrogen metasilicate ic	1.30E-11	1.30E-11	0	0	0	9.5844E-08
Magnesium hydroxide ion(+1)	5.36E-12	5.36E-12	0	0	0	3.9354E-08
Sodium ion(+1)	1.12E-03	1.12E-03	0	0	0	8.2290E+00
Disodium fluoride ion(+1)	8.00E-05	8.00E-05	0	0	0	5.8742E-01
Sodium carbonate ion(-1)	1.90E-05	1.90E-05	0	0	0	1.3940E-01
Sodium sulfate ion(-1)	1.10E-36	1.10E-36	0	0	0	8.0445E-33
Nitrate ion(-1)	2.34E-06	2.34E-06	0	0	0	1.7196E-02
Hydroxide ion(-1)	1.24E-06	1.24E-06	0	0	0	9.1185E-03
Hexafluorosilicon ion(-2)	3.12E-30	3.12E-30	0	0	0	2.2908E-26
Sulfate ion(-2)	8.65E-06	8.65E-06	0	0	0	6.3512E-02

Species Output (True Species)

Aqu WT-24/1937.0	**Aqueous**
Species	**mol/kg H2O**
Water	55.508
Bicarbonate ion(-1)	2.30E-03
Bisulfate(VI) ion (-1)	1.36E-11
Bromide ion (-1)	9.83E-01
Calcium bicarbonate ion(+1)	1.17E-09
Calcium carbonate (calcite)	7.60E-07
Calcium chloride	1.68E-15
Calcium hydrogen silicate ion(+1)	8.70E-07
Calcium hydroxide ion(+1)	8.20E-08
Calcium ion(+2)	2.98E-08
Calcium monochloride ion(+1)	3.90E-08
Calcium monofluoride ion(+1)	1.32E-07
Calcium mononitrate ion(+1)	5.90E-09
Calcium silicon dioxide dihydroxide	4.75E-07
Calcium sulfate	8.21E-10
Carbon dioxide	6.48E-08
Carbonate ion(-2)	3.14E-01
Chloride ion(-1)	7.38E+00
Dihydrogen hexafluorosilicate	3.47E-48
Dihydrogen orthosilicate ion(-2)	3.63E-02
Disodium fluoride ion(+1)	5.87E-01
Fluoride ion(-1)	1.33E-01
Hexafluorosilicon ion(-2)	2.29E-26
Hexasodium carbonate bissulfate	0.00E+00
Hydrofluoride, dimer	4.67E-20
Hydrogen bromide	1.50E-20
Hydrogen chloride	2.01E-15
Hydrogen difluoride ion (-1)	1.27E-09
Hydrogen fluoride	4.23E-09
Hydrogen hexafluorosilicate ion(-1)	8.05E-36
Hydrogen ion(+1)	1.03E-11
Hydroxide ion(-1)	9.12E-03
Magnesium bicarbonate ion(+1)	2.15E-10
Magnesium carbonate	2.08E-08
Magnesium dihydrogen orthosilicate	4.11E-07
Magnesium hydrogen metasilicate ion(+1)	9.58E-08
Magnesium hydroxide	0.00E+00
Magnesium hydroxide ion(+1)	3.94E-08
Magnesium ion(+2)	4.01E-10
Magnesium monofluoride ion(+1)	2.03E-09
Magnesium sulfate	4.18E-11
Nitrate ion(-1)	1.72E-02
Nitric acid	1.07E-16
Potassium bisulfate(VI)	1.31E-13
Potassium chloride	3.87E-02
Potassium ion(+1)	1.21E+00
Potassium sulfate(VI) ion(-1)	1.03E-02
Silicon dioxide (amorphous)	2.65E-03

Silicon tetrachloride	1.20E-81
Sodium bicarbonate	4.15E-04
Sodium bromide	2.13E-01
Sodium carbonate	0.00E+00
Sodium carbonate ion(-1)	1.39E-01
Sodium fluoride	1.22E-01
Sodium hydrogen metasilicate	4.99E+00
Sodium ion(+1)	8.23E+00
Sodium nitrate	4.20E-02
Sodium sulfate ion(-1)	8.04E-33
Sulfate ion(-2)	6.35E-02
Sulfur trioxide	2.93E-36
Sulfuric(VI) acid	2.27E-33
Tetrafluorosilane	5.43E-30
Trihydrogen silicate ion(-1)	5.25E-01