



Technology Transfer Network

Clearinghouse for Inventories & Emissions Factors
Software and Tools TANKS Emissions Estimation Software

TANKS Emissions Estimation Software, Version 4.09D

Released October 5, 2006

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What Is TANKS?

TANKS is a Windows-based computer software program that estimates volatile organic compound (VOC) and hazardous air pollutant (HAP) emissions from fixed- and floating-roof storage tanks. **TANKS** is based on the emission estimation procedures from [Chapter 7](#) of EPA's *Compilation Of Air Pollutant Emission Factors (AP-42)*. The user's manual, available in Adobe Acrobat format and WordPerfect, explains the many features and options of **TANKS**. The program includes on-line help for every screen.

Audience

TANKS is designed for use by local, state, and federal agencies, environmental consultants, and others who need to calculate air pollutant emissions from organic liquid storage tanks.

Program Capabilities

TANKS uses chemical, meteorological, roof fitting, and rim seal data to generate emissions estimates for several types of storage tanks, including:

- vertical and horizontal fixed roof tanks
- internal and external floating roof tanks
- domed external floating roof tanks
- underground tanks

See the [TANKS FAQ](#) for additional information about **TANKS**.

The **TANKS** program employs a chemical database of over 100 organic liquids, and a meteorological database of over 240 cities in the United States. The program allows the addition of more chemicals and cities, if desired. **TANKS** is capable of calculating individual component emissions from known mixtures and estimating emissions from crude oils and selected refined petroleum products using liquid concentration HAP profiles supplied with the program.

System Requirements

TANKS 4.09 will run on Windows XP desktops. The program requires 8 MB of random access memory (RAM). The installed program requires 8 MB of available hard disk space. **TANKS** is designed for operation from a PC's hard drive. Many users are able to share tank databases via LAN

connections to increase the utility of the program.

You must have administrative rights to all folders on your desktop. The installation process installs files to the Windows system directory.

TANKS is not supported on desktops using Windows Vista or Windows 7. Suggestions and fixes for running *TANKS* on a Vista or Windows 7 platform will be posted whenever possible. Please see the "[Errors and fixes](#)" table below.

Installations requiring *TANK* program files to be resident on a LAN are not advisable and are beyond our support capabilities.

TANKS Support

For help with the *TANKS* program, please send your question in an email to info.chief@epa.gov, or call the Info CHIEF Help Desk at (919)541-1000.

How To Get A Copy Of *TANKS*

Version 4.09D of the *TANKS* software is available here. If you have problems or questions about the files below, please contact *Info CHIEF* at (919) 541-1000.

You are advised to bookmark this web site and check it from time to time for information about updates to the *TANKS* program. Alternatively, you can [subscribe to the CHIEF listserv](#) and receive information about *TANKS* updates via email.

<p>TANKS 4.09D - October 3, 2005 TANKS 4.09D supersedes all previous versions of the TANKS software program.</p>	
<p>What's new in 4.09D?</p> <ul style="list-style-type: none"> • The program is now compatible with all versions of MS Access. • The program installation has been streamlined and the program files are smaller. • <i>TANKS</i> displays and prints reports with an Internet browser. The report formats have not changed. • Chemical Data: <ul style="list-style-type: none"> • The chemical data was updated with missing CAS numbers. • New compounds were added to the database. • Antoine's coefficients were corrected for several compounds. • A new partial speciation profile for gasoline oxygenated with ethanol was added. • Incorrect meteorological data was corrected. 	
<p>Installation instructions - PLEASE READ</p>	<p>(TXT 2K)</p>
<p>TANKS 4.09D Installation File Windows Installer file</p>	<p>(MSI 6.5M)</p>
<p>User's Manual for TANKS 4.0 The manual has not been updated</p>	<p>(PDF 646K)</p>
<p>Alternate TANKS 4.09D Installation File If the Windows Installer file does not correctly install, use this file. Please read the installation instructions.</p>	<p>(EXE 12M)</p>
<p>Explanation of File Formats</p>	

TANKS 4.09D errors and available fixes

PROBLEM	FIX
<p>There are revised deck fitting loss factors in the 2006 update to section 7.1 of AP42, Volatile Organic Liquid Storage Tanks. How can I include those in my TANKS program?</p>	<p>Updating the fitting table in TANKS (PDF 101K) For more detailed information about the deck fittings, see section 7.1 of AP42, Organic Liquid Storage Tanks</p>
<p>When I create a MS Excel or MS Access report from TANKS, I don't know what all the fields mean.</p>	<p>Field descriptions for MS Excel and MS Access reports from TANKS (PDF 50K) For more detailed information about the fields, see section 7.1 of AP42, Organic Liquid Storage Tanks</p>
<p>MS Vista users: TANKS does not run.</p>	<p>Possible solution for Vista users (ZIP 40K)</p>
<p>Internet Explorer version 7 users: The report function won't work and program locks up.</p>	<p>Possible solution for IE 7 users (TXT 2K)</p>
<p>Some of the partial speciation profiles that come with version 4.09D do not work.</p>	<p>Instructions for updating chemical database (PDF 8K)</p>
<p>Chemicals added and Antoine's coefficients corrected in 4.09D.</p>	<p>Additions to TANKS 4.09D (TXT 4K)</p>
<p>Error 1935 during installation.</p>	<p>Use the alternate installation provided above. Follow the installation instructions.</p>
<p>Could not find installable ISAM error message, or 'The wizard is unable to access information in the file.'</p>	<p>In Windows Control Panel open 'Regional and Language Options' and add your language.</p>
<p>TANK reports blocked as pop-up or Active X not allowed.</p>	<p>Best available solution (TXT 1K)</p>