



Emissions Inventory Help Sheet for the Fuel Storage and Handling

Not applicable to bulk plants or terminals

What do I need to report?

This help sheet is for reporting emissions from fuel storage tanks with capacity of 250 to 15,000 gallons, not at a bulk plant or terminal. Reportable fuels are gasoline, aviation gas and naphtha/JP-4. Do not report diesel fuel or jet A (jet kerosene). Volatile Organic Compounds (VOCs) are the air pollutants to be reported from fuel storage and handling.

What is Stage I?

A Stage I vapor recovery system means fuel delivery trucks attach a vapor recovery hose to your storage tank whenever they fill your storage tank with fuel.

What are my emission factors?

Gasoline Tank Emission Factors:

- Underground tank with submerged fill and Stage I = **2.72** lbs of VOC per 1,000 gallons of gas¹
- Underground tank with submerged fill and NO Stage I = **10.04** lbs of VOC per 1,000 gallons of gas²
- Aboveground tanks = **40.61** lbs of VOC per 1,000 gallons of gas¹

Underground Aviation Fuel Tank Emission Factors:

The table below provides emission factors determined by the vapor recovery system used and whether a refueling truck is used to transfer fuel to aircraft.

Fuel	Vapor Recovery System	Fueling Aircraft from an On-Site Storage Tank via Tank Truck?	Emission Factor ² (lbs/1,000 gallons)
Aviation Gasoline	Stage I	Yes	19
"	Stage I	No	14
"	None	Yes	26
"	None	No	21
Naphtha / JP-4	None	Yes	8
"	None	No	6.5

¹ Reference: California Air Resources Board, 2013. *Revised Emission Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities.*

² Reference: U.S. EPA, 1997. *Compilation of Air Pollutant Emission Factors AP-42*, Volume I: Transportation and Marketing of Petroleum Liquids, Section 5.2. Emission factors are derived from Tables 5.2-5 and 5.2-7 (1/95).

How do I calculate my emissions?

Refer to the AQD Online Portal Emissions Inventory Instructions for more information. In the AQD Online Portal, these emissions will be under the emission unit for a storage tank (TNK) with a specific emission process under the emission unit using the source classification code (SCC) 40688801 which has emissions calculated based on throughput. Edit the emissions process by adding the throughput in units of 1,000 gallons (i.e., if you used 10,000 gallons during the year, enter a 10 for the annual total in units of 1,000 gallons per year [divide value in gallons by 1,000]). When editing emissions, enter the specific VOC Emission Factor from the choices above.