

G03 - GASOLINE DISPENSING, SUBMERGED FILL OF UNDERGROUND TANK WITH PHASE I CONTROLS ONLY.

CALCULATION METHODS

$E_a = U_a \times EF \text{ (lbs TOG/1000 gallons throughput)} \times C_i \text{ (lbs Ci/lb TOG)}$

$E_h = T \text{ (maximum fuel delivery capacity)} \times EF \text{ (lbs TOG/1000 gallons delivered)} \times C_i \text{ (lbs Ci/lb TOG)}$

NOTES:

- Annual throughput (U_a) is for gasoline only, do not include diesel or jet fuels.
- Use a set ROG / TOG factor of 13.55 lbs/1000 gallons thrupt for annual estimates.
- Max. hourly emissions are assumed to occur during fuel delivery.
- Use a set ROG / TOG Factor of 0.85 lbs/1000 gallon delivered for hourly estimates.
- Only Phase I controls are assumed installed on this equipment.
- Emissions from tank loading, breathing, and refueling are speciated using average vapor concentration values for reformulated & oxygenated gasoline.
- Emissions from spillage are speciated using average liquid concentration values for reformulated & oxygenated gasoline.

POLLUTANT	District Emission Factor (lbs/lb emissions)	EPA REFERENCE DOCUMENT	ARB FACTOR	(UNITS)	COMMENTS
NOX					
CO					
SOX					
TOG	1.000	AP-42, Section 5.2 and others	13.55	lbs/1000 gal	Sum of loading (0.85), breathing (1.0), refueling (11.0), and spillage (0.7).
ROG	1.000	AP-42, Section 5.2 and others	13.55	lbs/1000 gal	Sum of loading (0.85), breathing (1.0), refueling (11.0), and spillage (0.7).
TSP					
PM10					
BENZENE	0.0043				ASSUMES 0.4% BY WEIGHT IN VAPOR AND 1.0% BY WEIGHT IN LIQUID
ETHYL BENZENE	0.0018				ASSUMES 0.1% BY WEIGHT IN VAPOR AND 1.6% BY WEIGHT IN LIQUID
HEXANE	0.0142				ASSUMES 1.4% BY WEIGHT IN VAPOR AND 1.8% BY WEIGHT IN LIQUID
LEAD					
TOLUENE	0.0146				ASSUMES 1.1% BY WEIGHT IN VAPOR AND 8.0% BY WEIGHT IN LIQUID
2,2,4-TRIMETHYLPENTANE	0.0071				ASSUMES 0.7% BY WEIGHT IN VAPOR AND 0.8% BY WEIGHT IN LIQUID
XYLENES	0.0050				ASSUMES 0.4% BY WEIGHT IN VAPOR AND 2.4% BY WEIGHT IN LIQUID