

Emission Sources - Maximum Allowable Emission Rates

Permit Number 84719

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour	TPY (4)
EP1-1	Exhaust Gas Purification System 1	VOC	0.09	0.15
		HF	0.01	0.01
		F2	0.01	0.01
		F2	0.01	0.01
		Non-VOC Organics	0.47	1.01
EP1-3	Hydrolysis Vacuum Pump	HF	0.01	0.01
EP1-4	Reduction Reactor	VOC	0.03	0.03
EP1-5A	Alcoholysis Vacuum Pump 1	HF	0.01	0.01
EP1-5B	Alcoholysis Vacuum Pump 2	HF	0.01	0.01
EP1-6	Washing Reactor 1	VOC	0.01	0.01
EP1-7	Washing Reactor 2	VOC	0.01	0.01
FH1-3	Building 1 Anhydride Flasks	VOC	0.01	0.01
FUG-1	Building 1 FUG Emissions	VOC	0.09	0.38
		HF	0.02	0.07
		F2	0.02	0.08
		Br2	0.01	0.01
EP2-1	Exhaust Gas Purification System 2	VOC	0.05	0.14
		HF	0.01	0.01
		F2	0.01	0.01
		Non-VOC Organics	0.47	1.01
EP2-2	Reactor/Distillation Unit 1	VOC	0.06	0.01
EP2-3	Reactor/Distillation Unit 1 Hot Oil System	VOC	0.01	0.01

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EP2-4	Reactor/Distillation Unit 2	Non-VOC Organics	0.25	0.01
EP2-5	Reactor/Distillation Unit 2	VOC	0.01	0.01
EP2-6	Solvent Washing Unit	VOC	0.02	0.01
FH2-3	Building 2 Flasks	VOC	0.01	0.01
FUG-2	Building 2 Fugitive Emissions	VOC	0.13	0.57
		HF	0.02	0.08
		F ₂	0.02	0.09
		Non-VOC Organics	0.05	0.20

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 HF - hydrogen fluoride
 F₂ - fluorine
 Br₂ - bromine
 Non-VOC Organics – acetone and fluorinated alkanes
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit

Date: February 20, 2020