

<i>Gas Name</i>	<i>Formula</i>	<i>Other Names</i>	<i>Abatement Method</i>	<i>Recommended PAS Abatement</i>	<i>Notes</i>
Acetylene	C <sub>2</sub> H <sub>2</sub>	Ethyne	Incineration	S-DOC or E-DOC-TH-450	Auto-ignites at 325 °C
Ammonia	NH <sub>3</sub>	Azane, Hydrogen Nitride	Water / Incineration	E-DOC-SC or E-DOC-TH-1000	For flowrates > 20 LPM, use E-DOC-TH-1000
Arsine	AsH <sub>3</sub>	Arsane, Arsenic Trihydride	Dry Adsorption / Incineration	C-DOC or E-DOC-TH-1000	-
Boron Hydride	B <sub>2</sub> H <sub>6</sub>	Borane, Boroethane	Oxidation	S-DOC	-
Boron Tribromide	BBr <sub>3</sub>	Tribromoborane, Boron Bromide	-	-	-
Boron Trichloride	BCl <sub>3</sub>	Trichloroborane, Boron Chloride	Water	E-DOC-SC	Forms BO <sub>3</sub> and HCl upon hydrolysis
Boron Trifluoride	BF <sub>3</sub>	Trifluoborane, Boron Fluoride	Water	E-DOC-SC	Forms BO <sub>3</sub> and HF upon hydrolysis
Bromine	Br <sub>2</sub>	Water	-	E-DOC-SC	Forms HBr upon hydrolysis
Bromine Trifluoride	BrF <sub>3</sub>	Bromine Fluoride	Water	E-DOC-SC	Forms HBr and HF upon hydrolysis
Butanone	C <sub>4</sub> H <sub>8</sub> O	Methyl Ethyl Ketone, MEK, 2-Butanone	Oxidation / Incineration	S-DOC or E-DOC-TH-850	Auto-ignites at 404 °C
Carbon Dioxide	CO <sub>2</sub>	Carbonic Anhydride, Carbonic Acid Gas	-	-	-

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Carbon Hexafluoride	C <sub>2</sub> F <sub>6</sub>	Hexafluoroethane, Perfluoroethane	Thermal Decomposition	-	-
Carbon Monoxide	CO	Carbonic Oxide, Carbon Oxide	Incineration	E-DOC-TH-850	Auto-ignites at 609 °C
Carbon Octafluoride	C <sub>3</sub> F <sub>8</sub> / C <sub>4</sub> F <sub>8</sub>	Octafluoropropane, Octafluorobutane	Thermal Decomposition	-	-
Carbon Tetrabromide	CBr <sub>4</sub>	Tetrabromomethane	-	-	-
Carbon Tetrachloride	CCl <sub>4</sub>	Tetrachloromethane	Water	E-DOC-SC	Forms CO <sub>2</sub> and HCl upon hydrolysis
Carbon Tetrafluoride	CF <sub>4</sub>	Tetrafluoromethane	Thermal Decomposition	-	Decomposes at 1100 °C
Chlorine	Cl <sub>2</sub>	Water	-	E-DOC-SC	Forms HCl upon hydrolysis -
Chlorine Dioxide	ClO <sub>2</sub>	Chlorine Oxide, Chlorine Peroxide	Water	E-DOC-SC	Forms HCl upon hydrolysis
Chlorine Trifluoride	ClF <sub>3</sub>	Chlorine Fluoride, Trifluorochlorine	-	-	-
Dichlorosilane	SiH <sub>2</sub> Cl <sub>2</sub>	Silicic Dichloride Dihydride, DCS	Incineration	E-DOC-TH-450	Auto-ignites at 44 °C
Diethylzinc	C <sub>4</sub> H <sub>4</sub> O	DEZ	Oxidation	S-DOC	-
Difluoromethane	CH <sub>2</sub> F <sub>2</sub>	Methylene Fluoride	Incineration	E-DOC-TH-850	Auto-ignites at 648 °C
Disilane	Si <sub>2</sub> H <sub>6</sub>	Silicon Hexahydride	Oxidation	S-DOC	-

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Ethylene Oxide	C <sub>2</sub> H <sub>4</sub> O	Oxirane, Dimethylene Oxide	Oxidation / Incineration	S-DOC or E-DOC-TH-850	Auto-ignites at 430 °C
Fluorine	F <sub>2</sub>	Water	-	E-DOC-SC	Forms HF upon hydrolysis
Germane	GeH <sub>4</sub>	Germanium Hydride, Germanomethane	Oxidation / Incineration	S-DOC or E-DOC-TH-1000	-
Hydrobromic Acid	HBr	Hydrogen Bromine	Water	E-DOC-SC	-
Hydrochloric Acid	HCl	Hydrogen Chloride	Water	E-DOC-SC	-
Hydrofluoric Acid	HF	Hydrogen Fluoride	Water	E-DOC-SC	-
Hydrogen	H <sub>2</sub>	Oxidation/Incineration	-	S-DOC or E-DOC-TH-850	Auto-ignites at 566 °C
Hydrogen Sulphide	H <sub>2</sub> S	Hydrosulfuric Acid, Sulfur Hydride	Water / Incineration	E-DOC-SC or E-DOC-TH-450	Auto-ignites at 270 °C
Isobutane	C <sub>4</sub> H <sub>10</sub>	Methylpropane	Incineration	E-DOC-TH-850	Auto-ignites at 460 °C
Methane	CH <sub>4</sub>	Carbon Tetrahydride, Tetrahydridocarbon	Incineration	E-DOC-TH-850	Auto-ignites at 537 °C
Methylene Chloride	CH <sub>2</sub> Cl <sub>2</sub>	Dichloromethane, Methylene Dichloride	Water / Incineration	E-DOC-SC or E-DOC-TH-850	Auto-ignites at 556 °C
Methyl Fluoride	CH <sub>3</sub> F	Fluoromethane	Water	E-DOC-SC	-

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Nitric Oxide	NO	Nitrogen Monoxide	Water	E-DOC-SC	-
Nitrogen Dioxide	NO <sub>2</sub> / N <sub>2</sub> O <sub>4</sub>	Nitrogen Peroxide, Nitrogen Tetroxide	Water	E-DOC-SC	-
Nitrogen Fluoride	NF <sub>3</sub>	Nitrogen Trifluoride, Trifluoramine			
Nitrous Oxide	N <sub>2</sub> O	Dinitrogen Monoxide			
Ozone	O <sub>3</sub>	-	-	-	-
Phosgene	CCl <sub>2</sub> O	Carbon Oxychloride, Carbonyl Chloride	Water	E-DOC-SC	Forms CO <sub>2</sub> and HCl upon hydrolysis
Phosphine	PH <sub>3</sub>	Phosphane, Phosphorous Trihydride	Oxidation / Incineration	S-DOC or E-DOC-TH-450	-
Phosphoryl Chloride	POCl <sub>3</sub>	Phosphorous Oxychloride	Water	E-DOC-SC	Forms PO <sub>3</sub> and HCl upon hydrolysis
Potassium Hydroxide	KOH	Caustic Potash	Water	E-DOC-SC	-
Silane	SiH <sub>4</sub>	Silicane, Silicon Tetrahydride	Oxidation	S-DOC	-
Silicon Tetrachloride	SiCl <sub>4</sub>	Silicon Chloride, Tetrachlorosilane	Water	E-DOC-SC	Forms SiO <sub>2</sub> and HCl upon hydrolysis
Sulfur Dioxide	SO <sub>2</sub>	Sulfurous Anhydride	Chemical Reaction	-	Forms H <sub>2</sub> O and sulfite salt upon reaction

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Silicon Tetrafluoride	SiF <sub>4</sub>	Silicon Fluoride, Tetrafluorosilane	Water	E-DOC-SC	Forms SiO <sub>2</sub> and HF upon hydrolysis
Sulfur Hexafluoride	SF <sub>6</sub>	Water	-	E-DOC-SC	-
Tetraethyl Orthosilicate	C <sub>8</sub> H <sub>20</sub> O <sub>4</sub> Si	TEOS, Ethyl Silicate, Tetraethoxysilane	Incineration	E-DOC-TH-450	Auto-ignites at 260 °C
Tetrakis(dimethylamino)titanium	C <sub>8</sub> H <sub>24</sub> N <sub>4</sub> Ti	TDMAT	Thermal Decomposition	E-DOC-TH-450	Decomposes at about 200 °C
Titanium Tetrachloride	TiCl <sub>4</sub>	Titanic Chloride, Tetrachlorotitanium	Water	E-DOC-SC	Forms TiO <sub>2</sub> and HCl upon hydrolysis
Toluene	C <sub>7</sub> H <sub>8</sub>	Methyl Benzene	Incineration	E-DOC-TH-850	Auto-ignites at 480 °C
Tributyl Phosphate	C <sub>12</sub> H <sub>27</sub> O <sub>4</sub> P	TBP, Phosphoric Acid Tributyl Ester	Water / Thermal Decomposition	E-DOC-SC or E-DOC-TH-450	Decomposes at 290 °C
Trichlorosilane	HSiCl <sub>3</sub>	Silicochloroform	Incineration	E-DOC-TH-450	Auto-ignites at 182 °C
Triethylarsenate	C <sub>6</sub> H <sub>15</sub> AsO <sub>4</sub>	TEASAT	Oxidation / Incineration	S-DOC or E-DOC-TH-850	-
Triethylborate	C <sub>6</sub> H <sub>15</sub> BO <sub>3</sub>	Ethyl Borate, Triethoxyborine, TEB	Water	E-DOC-SC	Decomposes in water
Triethylindium	C <sub>6</sub> H <sub>15</sub> In	Ethyl Indium	Oxidation	S-DOC	-
Triethylphosphate	C <sub>6</sub> H <sub>15</sub> O <sub>4</sub> P	TEPO, Ethyl Phosphate	Incineration	E-DOC-TH-850	Auto-ignites at 451 °C

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Trimethylaluminum	$C_3H_9Al$	TMA, Ethyl Aluminum	Oxidation	S-DOC	-
Trimethylboron	$C_3H_9B$	TMB, Methyl Boron, Trimethyl Borane	Water	E-DOC-SC	Decomposes in water
Trimethyl Gallium	$C_3H_9Ga$	TMG, Trimethylgallane	Oxidation	S-DOC	-
Trimethylindium	$C_3H_9In$	TMI, Methyl Indium	Oxidation	S-DOC	-
Trimethylsilane	$C_3H_{10}Si$	Trimethylsilyl Hydride	Oxidation / Incineration	S-DOC or E-DOC-TH-450	Auto-ignites at 235 °C
Trisdimethylaminoarsine	$C_6H_{18}N_3As$	TDMA	Oxidation / Dry Adsorption	S-DOC or C-DOC	-
Trisdimethylaminophosphine	$C_6H_{18}N_3P$	TDMP	Oxidation	S-DOC	-
Tungsten Hexafluoride	$WF_6$	Water	-	E-DOC-SC	Forms $WO_3$ and HF upon hydrolysis
Xenon Difluoride	$XeF_2$	Xenon Fluoride	Water	E-DOC-SC	Forms Xe and HF upon hydrolysis