

Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Quantity	Percent by weight	Units
Acetaldehyde		75-07-0			
Acetone cyanohydrin, stabilized		75-86-5			
Acetyl bromide		506-96-7			
Acetyl chloride		75-36-5			
Acetyl iodide		507-02-8			
Acetylene	[Ethyne]	74-86-2			
Acrolein	[2-Propenal] or Acrylaldehyde	107-02-8			
Acrylonitrile	[2-Propenenitrile]	107-13-1			
Acrylyl chloride	[2-Propenoyl chloride]	814-68-6			
Allyl alcohol	[2-Propen-1-ol]	107-18-6			
Allylamine	[2-Propen-1-amine]	107-11-9			
Allyltrichlorosilane, stabilized		107-37-9			
Aluminum (powder)		7429-90-5			
Aluminum bromide, anhydrous		7727-15-3			
Aluminum chloride, anhydrous		7446-70-0			
Aluminum phosphide		20859-73-8			
Ammonia (anhydrous)		7664-41-7			
Ammonia (conc. 20% or greater)		7664-41-7			
Ammonium nitrate, [with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance]		6484-52-2			
Ammonium nitrate, solid [nitrogen concentration of 23% nitrogen or greater]		6484-52-2			
Ammonium perchlorate		7790-98-9			
Ammonium picrate		131-74-8			
Amyltrichlorosilane		107-72-2			
Antimony pentafluoride		7783-70-2			
Arsenic trichloride	[Arsenous trichloride]	7784-34-1			
Arsine		7784-42-1			
Barium azide		18810-58-7			
1,4-Bis(2-chloroethylthio)-nbutane		142868-93-7			
Bis(2-chloroethylthio)methane		63869-13-6			

Bis(2chloroethylthiomethyl)ether		63918-90-1			
1,5-Bis(2-chloroethylthio)-npentane		142868-94-8			
1,3-Bis(2-chloroethylthio)-npropane		63905-10-2			
Boron tribromide		10294-33-4			
Boron trichloride	[Borane, trichloro]	10294-34-5			
Boron trifluoride	[Borane, trifluoro]	2095581			
Boron trifluoride compound with methyl ether (1:1)	[Boron, trifluoro [oxybis (methane)], T-4 ]	353-42-4			
Bromine		7726-95-6			
Bromine chloride		13863-41-7			
Bromine pentafluoride		7789-30-2			
Bromine trifluoride		7787-71-5			
Bromotrifluorethylene	[Ethene, bromotrifluoro-]	598-73-2			
1,3-Butadiene		106-99-0			
Butane		106-97-8			
Butene		25167-67-3			
1-Butene		106-98-9			
2-Butene		107-01-7			
2-Butene-cis		590-18-1			
2-Butene-trans	[2-Butene, (E)]	624-64-6			
Butyltrichlorosilane		7521-80-4			
Calcium hydrosulfite	[Calcium dithionite]	15512-36-4			
Calcium phosphide		1305-99-3			
Carbon disulfide		75-15-0			
Carbon oxysulfide	[Carbon oxide sulfide (COS); carbonyl sulfide]	463-58-1			
Carbonyl fluoride		353-50-4			
Carbonyl sulfide		463-58-1			
Chlorine		7782-50-5			
Chlorine dioxide	[Chlorine oxide, (ClO2)]	10049-04-4			
Chlorine monoxide	[Chlorine oxide]	7791-21-1			
Chlorine pentafluoride		13637-63-3			
Chlorine trifluoride		7790-91-2			
Chloroacetyl chloride		79-04-9			
2-Chloroethylchloromethylsulfide		2625-76-5			
Chloroform	[Methane, trichloro-]	67-66-3			
Chloromethyl ether	[Methane, oxybis(chloro-)]	542-88-1			
Chloromethyl methyl ether	[Methane, chloromethoxy-]	107-30-2			
1-Chloropropylene	[1-Propene, 1-chloro-]	590-21-6			

2-Chloropropylene	[1-Propene, 2-chloro-]	557-98-2			
Chlorosarin	[o-Isopropyl methylphosphonochloridate]	1445-76-7			
Chlorosoman	[o-Pinacolyl methylphosphonochloridate]	7040-57-5			
Chlorosulfonic acid		7790-94-5			
Chromium oxychloride		14977-61-8			
Crotonaldehyde	[2-Butenal]	4170-30-3			
Crotonaldehyde, (E)	[2-Butenal], (E)-]	123-73-9			
Cyanogen	[Ethanedinitrile]	460-19-5			
Cyanogen chloride		506-77-4			
Cyclohexylamine	[Cyclohexanamine]	108-91-8			
Cyclohexyltrichlorosilane		98-12-4			
Cyclopropane		75-19-4			
DF	Methyl phosphonyl difluoride	676-99-3			
Diazodinitrophenol		87-31-0			
Diborane		19287-45-7			
Dichlorosilane	[Silane, dichloro-]	4109-96-0			
N,N-(2diethylamino)ethanethiol		100-38-9			
Diethyldichlorosilane		1719-53-5			
o,o-Diethyl S-[2(diethylamino)ethyl] phosphorothiolate		78-53-5			
Diethyleneglycol dinitrate		693-21-0			
Diethyl methylphosphonite		15715-41-0			
N,N-Diethyl phosphoramidic dichloride		1498-54-0			
N,N-(2diisopropylamino)ethanethiol	N,N-diisopropyl-(beta)aminoethane thiol	1439977			
Difluoroethane	[Ethane, 1,1-difluoro-]	75-37-6			
N,N-Diisopropyl phosphoramidic dichloride		23306-80-1			
1,1-Dimethylhydrazine	[Hydrazine, 1, 1-dimethyl-]	57-14-7			
Dimethylamine	[Methanamine, N-methyl-]	124-40-3			
N,N-(2dimethylamino)ethanethiol		108-02-1			
Dimethyldichlorosilane	[Silane, dichlorodimethyl-]	75-78-5			
N,N-Dimethyl phosphoramidic dichloride	[Dimethylphosphoramidodichloridate]	677-43-0			
2,2-Dimethylpropane	[Propane, 2,2-dimethyl-]	463-82-1			
Dingu	[Dinitroglycoluril]	55510-04-8			
Dinitrogen tetroxide		10544-72-6			
Dinitrophenol		25550-58-7			

Dinitroresorcinol		519-44-8			
Diphenyldichlorosilane		80-10-4			
Dipicryl sulfide		115937			
Dipicrylamine [or] Hexyl	[Hexanitrodiphenylamine]	131-73-7			
N,N-(2dipropylamino)ethanethiol		1439946			
N,N-Dipropyl phosphoramidic dichloride		40881-98-9			
Dodecyltrichlorosilane		4484-72-4			
Epichlorohydrin	[Oxirane, (chloromethyl)-]	106-89-8			
Ethane		74-84-0			
Ethyl acetylene	[1-Butyne]	107-00-6			
Ethyl chloride	[Ethane, chloro-]	75-00-3			
Ethyl ether	[Ethane, 1,1-oxybis-]	60-29-7			
Ethyl mercaptan	[Ethanethiol]	75-08-1			
Ethyl nitrite	[Nitrous acid, ethyl ester]	109-95-5			
Ethyl phosphonyl difluoride		753-98-0			
Ethylamine	[Ethanamine]	75-04-7			
Ethyldiethanolamine		139-87-7			
Ethylene	[Ethene]	74-85-1			
Ethylene oxide	[Oxirane]	75-21-8			
Ethylenediamine	[1,2-Ethanediamine]	107-15-3			
Ethyleneimine	[Aziridine]	151-56-4			
Ethylphosphonothioic dichloride		993-43-1			
Ethyltrichlorosilane		115-21-9			
Fluorine		7782-41-4			
Fluorosulfonic acid		7789-21-1			
Formaldehyde (solution)		50-00-0			
Furan		110-00-9			
Germane		7782-65-2			
Germanium tetrafluoride		7783-58-6			
Guanyl nitrosaminoguanilydene hydrazine					
Hexaethyl tetraphosphate and compressed gas mixtures		757-58-4			
Hexafluoroacetone		684-16-2			
Hexanitrostilbene		20062-22-0			
Hexolite	[Hexotol]	121-82-4			
Hexyltrichlorosilane		928-65-4			
HMX	[Cyclotetramethylenetetranitramine]	2691-41-0			
HN1 (nitrogen mustard-1)	[Bis(2-chloroethyl)ethylamine]	538-07-8			

HN2 (nitrogen mustard-2)	[Bis(2-chloroethyl)methylamine]	51-75-2			
HN3 (nitrogen mustard-3)	[Tris(2-chloroethyl)amine]	555-77-1			
Hydrazine		302-01-2			
Hydrochloric acid (conc. 37% or greater)		7647-01-0			
Hydrocyanic acid		74-90-8			
Hydrofluoric acid (conc. 50% or greater)		7664-39-3			
Hydrogen		1333-74-0			
Hydrogen bromide (anhydrous)		10035-10-6			
Hydrogen chloride (anhydrous)		7647-01-0			
Hydrogen cyanide	[Hydrocyanic acid]	74-90-8			
Hydrogen fluoride (anhydrous)		7664-39-3			
Hydrogen iodide, anhydrous		10034-85-2			
Hydrogen peroxide (concentration of at least 35%)		7722-84-1			
Hydrogen selenide		2148909			
Hydrogen sulfide		2148878			
Iodine pentafluoride		7783-66-6			
Iron, pentacarbonyl	[Iron carbonyl (Fe (CO) <sub>5</sub> ), (TB511)-]	13463-40-6			
Isobutane	[Propane, 2-methyl]	75-28-5			
Isobutyronitrile	[Propanenitrile, 2-methyl-]	78-82-0			
Isopentane	[Butane, 2-methyl-]	78-78-4			
Isoprene	[1,3-Butadiene, 2-methyl-]	78-79-5			
Isopropyl chloride	[Propane, 2-chloro-]	75-29-6			
Isopropyl chloroformate	[Carbonochloridic acid, 1methylethyl ester]	108-23-6			
Isopropylamine	[2-Propanamine]	75-31-0			
Isopropylphosphonothioic dichloride		1498-60-8			
Isopropylphosphonyl difluoride		677-42-9			
Lead azide		13424-46-9			
Lead styphnate	[Lead trinitroresorcinate]	15245-44-0			
Lewisite 1	[2-Chlorovinyl]dichloroarsine]	541-25-3			
Lewisite 2	[Bis(2-chlorovinyl)chloroarsine]	40334-69-8			
Lewisite 3	[Tris(2-chlorovinyl)arsine]	40334-70-1			
Lithium amide		7782-89-0			
Lithium nitride		26134-62-3			
Magnesium (powder)		7439-95-4			
Magnesium diamide		7803-54-5			
Magnesium phosphide		12057-74-8			

MDEA	[Methyldiethanolamine]	105-59-9			
Mercury fulminate		628-86-4			
Methacrylonitrile	[2-Propenenitrile, 2-methyl-]	126-98-7			
Methane		74-82-8			
2-Methyl-1-butene		563-46-2			
3-Methyl-1-butene		563-45-1			
Methyl chloride	[Methane, chloro-]	74-87-3			
Methyl chloroformate	[Carbonochloridic acid, methyl ester]	79-22-1			
Methyl ether	[Methane, oxybis-]	115-10-6			
Methyl formate	[Formic acid Methyl ester]	107-31-3			
Methyl hydrazine	[Hydrazine, methyl-]	60-34-4			
Methyl isocyanate	[Methane, isocyanato-]	624-83-9			
Methyl mercaptan	[Methanethiol]	74-93-1			
Methyl thiocyanate	[Thiocyanic acid, methyl ester]	556-64-9			
Methylamine	[Methanamine]	74-89-5			
Methylchlorosilane		993-00-0			
Methyldichlorosilane		75-54-7			
Methylphenyldichlorosilane		149-74-6			
Methylphosphonothioic dichloride		676-98-2			
2-Methylpropene	[1-Propene, 2-methyl-]	115-11-7			
Methyltrichlorosilane	[Silane, trichloromethyl-]	75-79-6			
Sulfur mustard (Mustard gas (H))	[Bis(2-chloroethyl)sulfide]	505-60-2			
O-Mustard (T)	[Bis(2-chloroethylthioethyl)ether]	63918-89-8			
Nickel Carbonyl		13463-39-3			
Nitric acid		7697-37-2			
Nitric oxide	[Nitrogen oxide (NO)]	10102-43-9			
Nitrobenzene		98-95-3			
5-Nitrobenzotriazol		160318			
Nitrocellulose		9004-70-0			
Nitrogen mustard hydrochloride	[Bis(2-chloroethyl)methylamine hydrochloride]	55-86-7			
Nitrogen trioxide		10544-73-7			
Nitroglycerine		55-63-0			
Nitromannite	[Mannitol hexanitrate, wetted]	15825-70-4			
Nitromethane		75-52-5			
Nitrostarch		9056-38-6			
Nitrosyl chloride		2696-92-6			
Nitrotriazolone		932-64-9			
Nonyltrichlorosilane		5283-67-0			

Octadecyltrichlorosilane		112-04-9			
Octolite		57607-37-1			
Octonal		78413-87-3			
Octyltrichlorosilane		5283-66-9			
Oleum (Fuming Sulfuric acid)	[Sulfuric acid, mixture with sulfur trioxide]	8014-95-7			
Oxygen difluoride		7783-41-7			
1,3-Pentadiene		504-60-9			
Pentane		109-66-0			
1- Pentene		109-67-1			
2-Pentene, (E)		646-04-8			
2-Pentene, (Z)		627-20-3			
Pentolite		8066-33-9			
Peracetic acid	[Ethaneperoxic acid]	79-21-0			
Perchloromethylmercaptan	[Methanesulphenyl chloride, trichloro-]	594-42-3			
Perchloryl fluoride		7616-94-6			
PETN	[Pentaerythritol tetranitrate]	78-11-5			
Phenyltrichlorosilane		98-13-5			
Phosgene	[Carbonic dichloride] or [carbonyl dichloride]	75-44-5			
Phosphine		7803-51-2			
Phosphorus		7723-14-0			
Phosphorus oxychloride	[Phosphoryl chloride]	10025-87-3			
Phosphorus pentabromide		7789-69-7			
Phosphorus pentachloride		10026-13-8			
Phosphorus pentasulfide		1314-80-3			
Phosphorus trichloride		2125683			
Picrite	[Nitroguanidine]	556-88-7			
Piperidine		110-89-4			
Potassium chlorate		698078			
Potassium cyanide		151-50-8			
Potassium nitrate		7757-79-1			
Potassium perchlorate		7778-74-7			
Potassium permanganate		7722-64-7			
Potassium phosphide		20770-41-6			
Propadiene	[1,2-Propadiene]	463-49-0			
Propane		74-98-6			

Propionitrile	[Propanenitrile]	107-12-0			
Propyl chloroformate	[Carbonylchloridic acid, propylester]	109-61-5			
Propylene	[1-Propene]	115-07-1			
Propylene oxide	[Oxirane, methyl-]	75-56-9			
Propyleneimine	[Aziridine, 2-methyl-]	75-55-8			
Propylphosphonothioic dichloride		227920			
Propylphosphonyl difluoride		690-14-2			
Propyltrichlorosilane		141-57-1			
Propyne	[1-Propyne]	74-99-7			
QL	[o-Ethyl-o-2-diisopropylaminoethyl methylphosphonite]	57856-11-8			
RDX	[Cyclotrimethylenetrinitramine]	121-82-4			
RDX and HMX mixtures		121-82-4			
Sarin	[o-Isopropyl methylphosphonofluoridate]	107-44-8			
Selenium hexafluoride		7783-79-1			
Sesquimustard	[1,2-Bis(2-chloroethylthio)ethane]	3563-36-8			
Silane		7803-62-5			
Silicon tetrachloride		10026-04-7			
Silicon tetrafluoride		7783-61-1			
Sodium azide		26628-22-8			
Sodium chlorate		2146053			
Sodium cyanide		143-33-9			
Sodium hydrosulfite	[Sodium dithionite]	7775-14-6			
Sodium nitrate		7631-99-4			
Sodium phosphide		12058-85-4			
Soman	[o-Pinacolyl methylphosphonofluoridate]	96-64-0			
Stibine		7803-52-3			
Strontium phosphide		12504-16-4			
Sulfur dioxide (anhydrous)		2025884			
Sulfur tetrafluoride	[Sulfur fluoride (SF <sub>4</sub> ), (T-4)-]	7783-60-0			
Sulfur trioxide		2025949			
Sulfuryl chloride		7791-25-5			
Tabun	[o-Ethyl-N,Ndimethylphosphoramido-cyanidate]	77-81-6			
Tellurium hexafluoride		7783-80-4			
Tetrafluoroethylene	[Ethene, tetrafluoro-]	116-14-3			
Tetramethyllead	[Plumbane, tetramethyl-]	75-74-1			
Tetramethylsilane	[Silane, tetramethyl-]	75-76-3			



Tetranitroaniline		53014-37-2			
Tetranitromethane	[Methane, tetranitro-]	509-14-8			
Tetrazene	[Guanyl nitrosaminoguanyltetrazene]	109-27-3			
1H-Tetrazole		288-94-8			
Thiodiglycol	[Bis(2-hydroxyethyl)sulfide]	111-48-8			
Thionyl chloride		2125597			
Titanium tetrachloride	[Titanium chloride (TiCl <sub>4</sub> ) (T-4)-]	7550-45-0			
TNT	[Trinitrotoluene]	118-96-7			
Torpex	[Hexotonal]	67713-16-0			
Trichlorosilane	[Silane, trichloro-]	10025-78-2			
Triethanolamine		102-71-6			
Triethanolamine hydrochloride		637-39-8			
Triethyl phosphite		122-52-1			
Trifluoroacetyl chloride		354-32-5			
Trifluorochloroethylene	[Ethene, chlorotrifluoro]	79-38-9			
Trimethylamine	[Methanamine, N,N-dimethyl-]	75-50-3			
Trimethylchlorosilane	[Silane, chlorotrimethyl-]	75-77-4			
Trimethyl phosphite		121-45-9			
Trinitroaniline		26952-42-1			
Trinitroanisole		606-35-9			
Trinitrobenzene		99-35-4			
Trinitrobenzenesulfonic acid		2508-19-2			
Trinitrobenzoic acid		129-66-8			
Trinitrochlorobenzene		88-88-0			
Trinitrofluorenone		129-79-3			
Trinitro-meta-cresol		602-99-3			
Trinitronaphthalene		55810-17-8			
Trinitrophenetole		4732-14-3			
Trinitrophenol		88-89-1			
Trinitroresorcinol		82-71-3			
Tritonal		54413-15-9			
Tungsten hexafluoride		7783-82-6			
Vinyl acetate monomer	[Acetic acid ethenyl ester]	108-05-4			
Vinyl acetylene	[1-Buten-3-yne]	689-97-4			
Vinyl chloride	[Ethene, chloro-]	75-01-4			
Vinyl ethyl ether	[Ethene, ethoxy-]	109-92-2			
Vinyl fluoride	[Ethene, fluoro-]	75-02-5			
Vinyl methyl ether	[Ethene, methoxy-]	107-25-5			

Vinylidene chloride	[Ethene, 1,1-dichloro-]	75-35-4			
Vinylidene fluoride	[Ethene, 1,1-difluoro-]	75-38-7			
Vinyltrichlorosilane		75-94-5			
VX	[o-Ethyl-S-2-diisopropylaminoethyl methyl phosphonothiolate]	50782-69-9			
Zinc hydrosulfite	[Zinc dithionite]	7779-86-4			