

US Department of Homeland Security (DHS)
Chemical Facility Anti-Terrorism Standards (CFATS)
Chemicals of Interest "For Laboratories"

Chemical Of Interest	Synonym	CAS	Physical State*	Specific Gravity/Density*	CFATS Reporting Units	Min. Conc. (%)**	Facility*** Screening Threshold (pounds)	Notes****
Acetone cyanohydrin, stabilized	a-Hydroxyisobutyronitrile	75-86-5	Liquid	0.9267	Pounds	ACG	any amount	Water reactive, evolves toxic HCN. Insecticides; organic synthesis.
Acetyl bromide		506-96-7	Liquid	1.5200	Pounds	ACG	1001	
Acetyl chloride		75-36-5	Liquid	1.1040	Pounds	ACG	1001	
Acetyl iodide		507-02-8	Liquid	2.0673	Pounds	ACG	1001	
Allyltrichlorosilane, stabilized		107-37-9	Liquid	1.2011	Pounds	ACG	1001	
Aluminum (powder)		7429-90-5	Solid	2.7000	Pounds	ACG	100	
Aluminum bromide, anhydrous		7727-15-3	Solid	3.2000	Pounds	ACG	1001	
Aluminum chloride, anhydrous		7446-70-0	Solid	2.4800	Pounds	ACG	1001	
Aluminum phosphide		20859-73-8	Solid	2.8500	Pounds	ACG	any amount	Water reactive, evolves toxic PH ₃ . Insecticide; Fumigant; Semi-conductor technology.
Ammonium nitrate, [with more than 0.2 percent combustible substances, including ACG organic substance calculated as carbon, to the exclusion of ACG other added substance]		6484-52-2	Solid	1.7200	Pounds	ACG	400	Oxidizer, explosive.
Ammonium nitrate, solid [nitrogen concentration of 23% nitrogen or greater]		6484-52-2	Solid	1.7200	Pounds	33	2000	Oxidizer, explosive.
Ammonium perchlorate		7790-98-9	Solid	1.9500	Pounds	ACG	400	Oxidizer, propellant.
Ammonium picrate		131-74-8	Solid	1.7200	Pounds	ACG	400	Nitroaromatic, explosive.
Amyltrichlorosilane		107-72-2	Liquid	1.1330	Pounds	ACG	1001	
Antimony pentafluoride		7783-70-2	Liquid	2.9930	Pounds	ACG	1001	
Arsenic trichloride	[Arsenous trichloride]	7784-34-1	Liquid	2.1450	Pounds	30	2.2	Ceramics; Pharmaceutical production; Insecticide production. Synthesis of organic arsenochlorine blister agents. CWC Sched. 2, precursor.
Arsine		7784-42-1	Gas	4.93 g/l	Pounds	0.67	15	Organic synthesis; Doping for solid-state electronics, Blood agent (cytochrome oxidase inhibitor)
Barium azide		18810-58-7	Solid	2.9400	Pounds	ACG	400	
1,4-Bis(2-chloroethylthio)-n-butane		142868-93-7			Grams	ACG	100g	CWC Sched. 1, sulfur mustard.
Bis(2-chloroethylthio)methane		63869-13-6			Grams	ACG	100g	CWC Sched. 1, sulfur mustard.
Bis(2-chloroethylthiomethyl)ether		63918-90-1			Grams	ACG	100g	CWC Sched. 1, sulfur mustard.
1,5-Bis(2-chloroethylthio)-n-pentane		142868-94-8			Grams	ACG	100g	CWC Sched. 1, sulfur mustard.
1,3-Bis(2-chloroethylthio)-n-propane		63905-10-2			Grams	ACG	100g	CWC Sched. 1, sulfur mustard.
Boron tribromide		10294-33-4	Liquid	2.6980	Pounds	12.67	45/any amount	Catalyst in organic synthesis manufacture of diborane.
Boron trichloride	[Borane, trichloro]	10294-34-5	Gas	1.346 g/cc	Pounds	84.7	45	Catalyst in organic synthesis and making of electrical resistors.
Boron trifluoride	[Borane, trifluoro]	7637-07-2	Gas	2.867 g/l	Pounds	26.87	45	Catalyst in organic synthesis.
Bromine chloride		13863-41-7	Gas	2.172 g/cc	Pounds	9.67	45	Industrial disinfectant, particularly wastewaters.

* Note: Consult manufactures chemical specifications for actual values

** Min. Conc. = Minimum Concentration in %, ACG = Any Commercial Grade

*** For Theft and/or Sabotage

**** CWC = U.S. Chemical Warfare Convention Schedules 1, 2, 3

US Department of Homeland Security (DHS)
Chemical Facility Anti-Terrorism Standards (CFATS)
Chemicals of Interest "For Laboratories"

Chemical Of Interest	Synonym	CAS	Physical State*	Specific Gravity/Density*	CFATS Reporting Units	Min. Conc. (%)**	Facility*** Screening Threshold (pounds)	Notes****
Bromine pentafluoride		7789-30-2	Liquid	2.4604	Pounds	ACG	any amount	
Bromine trifluoride		7787-71-5	Liquid	2.8 g/ml	Pounds	6	any amount	Fluorinating agent; electrolytic solvent.
Butyltrichlorosilane		7521-80-4	Liquid	1.1606	Pounds	ACG	1001	
Calcium hydrosulfite	[Calcium dithionite]	15512-36-4			Pounds	ACG	1001	
Calcium phosphide		1305-99-3	Solid	2.5100	Pounds	ACG	any amount	Water reactive, evolves toxic PH ₃ . Nerve agent precursor. Rodenticide; pyrotechnics; signal fires.
Carbonyl fluoride		353-50-4	Gas	2.8960	Pounds	12	45	
Carbonyl sulfide		463-58-1	Gas	2.51 g/l	Pounds	56.67	500	
Chlorine		7782-50-5	Gas	1.4085 (liq)	Pounds	9.77	500	Choking agent.
Chlorine dioxide	[Chlorine oxide, (ClO ₂)]	10049-04-4	Gas	1.642 (liq)	Pounds	ACG	any amount	
Chlorine pentafluoride		13637-63-3	Gas		Pounds	4.07	15	Organic synthesis, propellant.
Chlorine trifluoride		7790-91-2	Gas	1.8250	Pounds	9.97	45	Fluorination and propellants.
Chloroacetyl chloride		79-04-9	Liquid	1.4202	Pounds	ACG	any amount	Tear gas.
2-Chloroethylchloro-methylsulfide		2625-76-5			Grams	ACG	100g	CWC Sched. 1, sulfur mustard.
Chlorosarin	[o-Isopropyl methylphosphonochloridate]	1445-76-7	Liquid		Grams	ACG	100g	CWC Sched. 1, precursor.
Chlorosoman	[o-Pinacolyl methylphosphonochloridate]	7040-57-5	Liquid		Grams	ACG	100g	CWC Sched. 1, precursor.
Chlorosulfonic acid		7790-94-5	Liquid	1.7530	Pounds	ACG	any amount	
Chromium oxychloride		14977-61-8	Liquid	1.9100	Pounds	ACG	1001	
Cyanogen	[Ethanedinitrile]	460-19-5	Gas	0.9537	Pounds	11.67	45	Organic synthesis; fumigant; propellant.
Cyanogen chloride		506-77-4	Gas	1.1860	Pounds	2.67	15	Organic synthesis; tear gas; warning agent in fumigant gases, CWC Sched. 3, blood agent (cytochrome oxidase inhibitor).
Cyclohexyltrichlorosilane		98-12-4	Liquid		Pounds		1001	
DF	Methyl phosphonyl difluoride	676-99-3	Liquid		Grams	ACG	100g	CWC Sched. 1, precursor, binary nerve agent and corrosive.
Diazodinitrophenol	5,7-Dinitro-1,2,3-benzoxadiazole	87-31-0	Solid	1.6300	Pounds	ACG	400	Primary explosive (initiator).
Diborane		19287-45-7	Gas	0.2100	Pounds	2.67	15	Synthesis of organic borane compounds and metal borohydrides; polymerization catalyst for ethylene; reducing agent; doping agent for p-type semi-conductors.
Dichlorosilane	[Silane, dichloro-]	4109-96-0	Gas	4.594 g/l	Pounds	10.47	45	Manufacture of silicon.
N,N-(2-diethylamino)ethanethiol		100-38-9	Liquid	0.88	Pounds	30	2.2	Production of THS, an antibiotic used for veterinary applications.
Diethyldichlorosilane		1719-53-5	Liquid	1.0500	Pounds	ACG	1001	
o,o-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate	Amiton, VG	78-53-5	Liquid	1.048 g/cc	Pounds	30	2.2	Insecticide and miticide, CWC Sched. 2, nerve agent.
Diethyleneglycol dinitrate		693-21-0	Liquid	1.115 g/cc	Pounds	ACG	400	

* Note: Consult manufactures chemical specifications for actual values

** Min. Conc. = Minimum Concentration in %, ACG = Any Commercial Grade

*** For Theft and/or Sabotage

**** CWC = U.S. Chemical Warfare Convention Schedules 1, 2, 3

US Department of Homeland Security (DHS)
Chemical Facility Anti-Terrorism Standards (CFATS)
Chemicals of Interest "For Laboratories"

Chemical Of Interest	Synonym	CAS	Physical State*	Specific Gravity/Density*	CFATS Reporting Units	Min. Conc. (%)**	Facility*** Screening Threshold (pounds)	Notes****
Diethyl methylphosphonite		15715-41-0			Pounds	30	2.2	CWC Sched. 2, precursor.
N,N-Diethyl phosphoramidic dichloride		1498-54-0			Pounds	30	2.2	CWC Sched. 2, precursor.
N,N-(2-diisopropylamino)ethanethiol	N,N-diisopropyl-(beta)-aminoethane thiol	5842-07-9			Pounds	30	2.2	CWC Sched. 2, precursor.
N,N-Diisopropyl phosphoramidic dichloride		23306-80-1	Liquid		Pounds	30	2.2	CWC Sched. 2, precursor.
N,N-(2-dimethylamino)ethanethiol		108-02-1			Pounds	30	2.2	CWC Sched. 2, precursor.
Dimethyldichlorosilane	[Silane, dichlorodimethyl-]	75-78-5		1.0700	Pounds	ACG	1001	Water reactive, evolves toxic HCl.
N,N-Dimethyl phosphoramidic dichloride	[Dimethylphosphoramido-dichloridate]	677-43-0	Liquid		Pounds	30	2.2	CWC Sched. 2, precursor.
Dingu	[Dinitroglycoluril]	55510-04-8			Pounds	ACG	400	
Dinitrogen tetroxide		10544-72-6	Gas	1.4500	Pounds	3.8	15	Propellant; strong oxidizer; bleaching agent; intermediate in production of nitric and sulfuric acid.
Dinitrophenol		25550-58-7		1.6800	Pounds	ACG	400	
Dinitroresorcinol		519-44-8			Pounds	ACG	400	
Diphenyldichlorosilane		80-10-4		1.2040	Pounds	ACG	1001	
Dipicryl sulfide		2217-06-3			Pounds	ACG	400	
Dipicrylamine [or] Hexyl	[Hexanitrodiphenylamine]	131-73-7			Pounds	ACG	400	
N,N-(2-dipropylamino)ethanethiol		5842-06-8			Pounds	30	2.2	
N,N-Dipropyl phosphoramidic dichloride		40881-98-9	Liquid		Pounds	30	2.2	
Dodecyltrichlorosilane		4484-72-4		1.0260	Pounds	ACG	1001	
Ethyl phosphonyl difluoride		753-98-0	Liquid		Grams	ACG	100g	CWC Sched. 2, precursor.
Ethyl-diethanolamine		139-87-7	Liquid	1.014	Pounds	80	220	CWC Sched. 3, precursor.
Ethylphosphonothioic dichloride		993-43-1	Liquid	1.3760	Pounds	30	2.2	CWC Sched. 2, precursor.
Ethyltrichlorosilane		115-21-9		1.2381	Pounds	ACG	1001	Water reactive, evolves toxic HCl.
Fluorine		7782-41-4	Gas	1.696 g/l	Pounds	6.17	15	Production of metallic and other fluorides; production of fluorocarbons.
Fluorosulfonic acid		7789-21-1		1.84 g/cc	Pounds	ACG	1001	
Germane		7782-65-2	Gas		Pounds	20.73	45	
Germanium tetrafluoride		7783-58-6	Gas		Pounds	2.11	15	
Guanyl nitrosaminoguanilidene hydrazine		None	Solid		Pounds	ACG	400	30% moisture, explosive when dry.
Hexaethyl tetraphosphate and compressed gas mixtures	Tetraphosphoric acid, hexaethyl ester	757-58-4		1.2800	Pounds	33.37	500	
Hexafluoroacetone		684-16-2	Gas	1.3300	Pounds	15.67	45	Intermediate in organic synthesis.
Hexanitrostilbene	Benzene, 1,1'-(1,2-Ethenediyl)-Bis 2,4,6-Trinitro -	20062-22-0			Pounds	ACG	400	
Hexolite	1,3,5-Trinitrohexahydro-s-triazine, [Hexotol]	121-82-4		1.8200	Pounds	ACG	400	
Hexyltrichlorosilane		928-65-4		1.1100	Pounds	ACG	1001	

* Note: Consult manufactures chemical specifications for actual values

** Min. Conc. = Minimum Concentration in %, ACG = Any Commercial Grade

*** For Theft and/or Sabotage

**** CWC = U.S. Chemical Warfare Convention Schedules 1, 2, 3

US Department of Homeland Security (DHS)
Chemical Facility Anti-Terrorism Standards (CFATS)
Chemicals of Interest "For Laboratories"

Chemical Of Interest	Synonym	CAS	Physical State*	Specific Gravity/Density*	CFATS Reporting Units	Min. Conc. (%)**	Facility*** Screening Threshold (pounds)	Notes****
HMX	Octogen, [Cyclotetramethylene-tetranitramine]	2691-41-0		1.9030	Pounds	ACG	400	Nitramine, explosive.
HN1 (nitrogen mustard-1)	[Bis(2-chloroethyl)ethylamine]	538-07-8	Liquid	1.0900	Grams	ACG	100g	CWC Sched. 1, blister agent.
HN2 (nitrogen mustard-2)	[Bis(2-chloroethyl)methylamine]	51-75-2	Liquid	1.1180	Grams	ACG	100g	CWC Sched. 1, blister agent.
HN3 (nitrogen mustard-3)	[Tris(2-chloroethyl)amine]	555-77-1	Liquid	1.2347	Grams	ACG	100g	CWC Sched. 1, blister agent.
Hydrogen bromide (anhydrous)		10035-10-6	Gas	1.5170	Pounds	95.33	500	
Hydrogen chloride (anhydrous)		7647-01-0	Gas	1.2000	Pounds	ACG	500	
Hydrogen cyanide	[Hydrocyanic acid]	74-90-8	Gas	0.6870	Pounds	4.67	15	Acutely toxic gas. Rodenticides; pesticides; manufacturer of various chemical compounds, CWC Sched. 3, blood agent (cytochrome oxidase inhibitor).
Hydrogen fluoride (anhydrous)		7664-39-3		0.9910	Pounds	42.53	45	Catalyst in alkylation, isomerization, condensation, dehydration, and polymerization reactions; fluorinating agent in organic and inorganic reactions; additive in rocket propellants; refining of uranium. Nerve agent precursor.
Hydrogen iodide, anhydrous		10034-85-2		1.7000	Pounds	95.33	500	
Hydrogen peroxide (concentration of at least 35%)		7722-84-1	Liquid	1.4425	Pounds	35	400	
Hydrogen selenide		7783-07-5	Gas	2.1200	Pounds	0.07	15	Preparation of metallic selenides and organoselenium compounds; in doping mix for preparation of semiconductor materials containing controlled amounts of significant impurities.
Hydrogen sulfide		7783-06-4	Gas	1.5392	Pounds	23.73	45	Purification of hydrochloric and sulfuric acid; precipitating sulfides of metals; analytical reagent; source of sulfur and hydrogen.
Iodine pentafluoride		7783-66-6			Pounds	ACG	1001	
Isopropylphosphonothioic dichloride		1498-60-8	Liquid		Pounds	30	2.2	CWC Sched. 2, precursor.
Isopropylphosphonyl difluoride	Phosphonic difluoride	677-42-9	Liquid		Grams	ACG	100g	CWC Sched. 2, precursor.
Lead azide		13424-46-9			Pounds	ACG	400	Primary explosive (initiator).
Lead styphnate	[Lead trinitroresorcinate]	15245-44-0			Pounds	ACG	400	Primary explosive (initiator).
Lewisite 1	[2-Chlorovinyl]dichloroarsine	541-25-3	Liquid	1.8880	Grams	ACG	100g	CWC Sched. 1, blister agent.
Lewisite 2	[Bis(2-chlorovinyl)chloroarsine]	40334-69-8	Liquid		Grams	ACG	100g	CWC Sched. 1, blister agent.
Lewisite 3	[Tris(2-chlorovinyl)arsine]	40334-70-1	Liquid		Grams	ACG	100g	CWC Sched. 1, blister agent.
Lithium amide		7782-89-0		1.1800	Pounds	ACG	any amount	Organic synthesis, including antihistamines and other pharmaceuticals.
Lithium nitride		26134-62-3			Pounds	ACG	any amount	Nitriding agent in metallurgy; reducing and nucleophilic reagent in organic reactions.
Magnesium (powder)		7439-95-4	Solid	1.7380	Pounds	ACG	100	
Magnesium diamide		7803-54-5	Solid		Pounds	ACG	1001	
Magnesium phosphide		12057-74-8	Solid	2.1 g/cc	Pounds	ACG	any amount	

* Note: Consult manufactures chemical specifications for actual values

** Min. Conc. = Minimum Concentration in %, ACG = Any Commercial Grade

*** For Theft and/or Sabotage

**** CWC = U.S. Chemical Warfare Convention Schedules 1, 2, 3

US Department of Homeland Security (DHS)
Chemical Facility Anti-Terrorism Standards (CFATS)
Chemicals of Interest "For Laboratories"

Chemical Of Interest	Synonym	CAS	Physical State*	Specific Gravity/Density*	CFATS Reporting Units	Min. Conc. (%)**	Facility*** Screening Threshold (pounds)	Notes****
MDEA	[Methyldiethanolamine]	105-59-9	Liquid	1.0377	Pounds	80	220	CWC Sched. 3, precursor.
Mercury fulminate		628-86-4	Solid	4.4200	Pounds	ACG	400	Primary explosive (initiator).
Methyl mercaptan	[Methanethiol]	74-93-1	Gas	1.99 g/l	Pounds	45	500	
Methylchlorosilane		993-00-0	Gas	0.0935	Pounds	20	45	Intermediate in formation of silicones or siloxanes; reaction with hydroxyl group to produce permanent thin layer of silicon that imparts water repellency; bound source of nitrogen in organic reactions.
Methyldichlorosilane		75-54-7	Liquid	1.1047	Pounds	ACG	any amount	Water reactive, evolves toxic HCl; used in manufacture of siloxanes.
Methylphenyldichlorosilane	2-Propyl methylphosphonochloridate	149-74-6	Liquid	1.1866	Pounds	ACG	1001	
Methylphosphonothioic dichloride		676-98-2	Liquid	1.4220	Pounds	30	2.2	CWC Sched. 2, precursor.
Methyltrichlorosilane	[Silane, trichloromethyl-]	75-79-6	Liquid	1.2750	Pounds	ACG	1001	Water reactive, evolves toxic HCl.
Sulfur mustard (Mustard gas (H))	[Bis(2-chloroethyl)sulfide]	505-60-2	Liquid	1.2741	Grams	ACG	100g	Blister agent, vesicant war gas; organic synthesis; poison gas; medicine.
O-Mustard (T)	[Bis(2-chloroethylthioethyl)ether]	63918-89-8			Grams	ACG	100g	CWC Sched. 1, sulfur mustard, blister agent.
Nitric acid		7697-37-2	Liquid	1.5500	Pounds	68	400	Organic synthesis; manufacture of fertilizers and explosives; metallurgy and metal etching; photo-engraving.
Nitric oxide	[Nitrogen oxide (NO)]	10102-43-9	Gas	1.2700	Pounds	3.83	15	Intermediate in production of nitric acid from ammonia; bleaching agent; preparation of nitrosyl carbonyls, choking agent.
Nitrobenzene		98-95-3	Liquid	1.2037	Pounds	ACG	100	Manufacture of aniline; solvent for cellulose ethers; ingredient in metal polishes.
5-Nitrobenzotriazol		2338-12-7	Solid		Pounds	ACG	400	
Nitrocellulose		9004-70-0	Solid	1.6600	Pounds	ACG	400	Aliphatic nitrate ester, explosive.
Nitrogen mustard hydrochloride	[Bis(2-chloroethyl)methylamine hydrochloride]	55-86-7	Solid		Pounds	30	2.2	Medicine; military poison gas.
Nitrogen trioxide		10544-73-7	Gas		Pounds	3.83	15	Oxidant in special fuel systems; identification of terpenes preparation of alkali nitrites.
Nitroglycerine		55-63-0	Liquid	1.5918	Pounds	ACG	400	Nitroexplosive.
Nitromannite	MHN, [Mannitol hexanitrate, wetted]	15825-70-4	Solid		Pounds	ACG	400	Nitroexplosive.
Nitromethane		75-52-5	Liquid	1.1322	Pounds	ACG	400	Racing fuel.
Nitrostarch		9056-38-6	Solid		Pounds	ACG	400	Explosive.
Nitrosyl chloride		2696-92-6	Gas	2.9900	Pounds	1.17	15	Synthetic detergents; catalyst; intermediate
Nitrotriazolone		932-64-9			Pounds	ACG	400	Explosive.
Nonyltrichlorosilane		5283-67-0		1.0640	Pounds	ACG	1001	
Octadecyltrichlorosilane		112-04-9		0.9840	Pounds	ACG	1001	
Octolite	Benzene, 2-methyl-1,3,5-trinitro-, mixt. containing	57607-37-1			Pounds	ACG	400	Explosive.

* Note: Consult manufactures chemical specifications for actual values

** Min. Conc. = Minimum Concentration in %, ACG = Any Commercial Grade

*** For Theft and/or Sabotage

**** CWC = U.S. Chemical Warfare Convention Schedules 1, 2, 3

US Department of Homeland Security (DHS)
Chemical Facility Anti-Terrorism Standards (CFATS)
Chemicals of Interest "For Laboratories"

Chemical Of Interest	Synonym	CAS	Physical State*	Specific Gravity/Density*	CFATS Reporting Units	Min. Conc. (%)**	Facility*** Screening Threshold (pounds)	Notes****
Octonal	Benzene, 2-methyl-1,3,5-trinitro-, mixt. containing	78413-87-3		0.8200	Pounds	ACG	400	Explosive.
Octyltrichlorosilane		5283-66-9		1.0700	Pounds	ACG	1001	
Oxygen difluoride		7783-41-7	Gas	1.9000	Pounds	0.09	15	
Pentolite	50% PETN and 50% TNT	8066-33-9			Pounds	ACG	400	Explosive.
Perchloryl fluoride		7616-94-6	Gas	1.4340	Pounds	25.67	45	Oxidant in rocket fuels; oxidizing and fluorinating agent in chemical reactions.
PETN	[Pentaerythritol tetranitrate]	78-11-5		1.7730	Pounds	ACG	400	Aliphatic nitrate ester, explosive.
Phenyltrichlorosilane		98-13-5		1.3290	Pounds	ACG	1001	
Phosgene	[Carbonic dichloride] or [carbonyldichloride]	75-44-5	Gas	1.3719	Pounds	0.17	15	Organic synthesis, especially isocyanates, polyurethane, and polycarbonate resins, carbamates, organic carbonates and chloroformates; pesticides; herbicides; dye manufacture. CWC Sched. 3, choking agent.
Phosphine		7803-51-2	Gas	1.1850	Pounds	0.67	15	Organic preparations, phosphonium halides; doping agent for n-type semi-conductors; polymerization initiator; condensation catalyst.
Phosphorus		7723-14-0	Solid	2.3400	Pounds	ACG	400	Used in explosives, nerve agents, friction matches, fireworks, pesticides.
Phosphorus oxychloride	[Phosphoryl chloride]	10025-87-3	Liquid	1.6750	Pounds	80	220/any amount	CWC Sched. 3, precursor.
Phosphorus pentabromide		7789-69-7	Solid		Pounds	ACG	1001	
Phosphorus pentachloride		10026-13-8	Solid	1.6000	Pounds	ACG	1001	CWC Sched. 3, precursor.
Phosphorus pentasulfide		1314-80-3	Solid		Pounds	ACG	any amount	Water reactive, evolves toxic H ₂ S; nerve agent precursor. Used in lube-oil additives; insecticides (parathion and malathion); safety matches; floatation agents; ignition compounds; sulfonation.
Phosphorus trichloride		7719-12-2	Liquid	1.5740	Pounds	3.48	45/any amount	DOT 6.1 Primary Inhalation Hazard. CWC Sched. 3, precursor.
Picrite	[Nitroguanidine]	556-88-7	Solid	>1.1	Pounds	ACG	400	Nitramine, explosive.
Potassium chlorate		3811-04-9	Solid	2.3200	Pounds	ACG	400	Oxidizer, explosive.
Potassium cyanide		151-50-8	Solid	1.5500	Pounds	ACG	1001	Chemical weapon precursor. Evolves toxic HCN.
Potassium nitrate		7757-79-1	Solid	2.1090	Pounds	ACG	400	Oxidizer, explosive.
Potassium perchlorate		7778-74-7	Solid	2.5300	Pounds	ACG	400	Oxidizer, explosive.
Potassium permanganate		7722-64-7	Solid	2.7000	Pounds	ACG	400	Oxidizer, explosive.
Potassium phosphide		20770-41-6	Solid		Pounds	ACG	any amount	Reducer.
Propylphosphonothioic dichloride		2524-01-8			Pounds	30	2.2	
Propylphosphonyl difluoride		690-14-2			Grams	ACG	100g	
Propyltrichlorosilane		141-57-1	Liquid	1.1851	Pounds	ACG	1001	

* Note: Consult manufactures chemical specifications for actual values

** Min. Conc. = Minimum Concentration in %, ACG = Any Commercial Grade

*** For Theft and/or Sabotage

**** CWC = U.S. Chemical Warfare Convention Schedules 1, 2, 3

US Department of Homeland Security (DHS)
Chemical Facility Anti-Terrorism Standards (CFATS)
Chemicals of Interest "For Laboratories"

Chemical Of Interest	Synonym	CAS	Physical State*	Specific Gravity/Density*	CFATS Reporting Units	Min. Conc. (%)**	Facility*** Screening Threshold (pounds)	Notes****
QL	[o-Ethyl-o-2-diisopropylaminoethyl methylphosphonite]	57856-11-8	Liquid		Grams	ACG	100g	CWC Sched. 1, precursor.
RDX	Hexogen, [Cyclotrimethylenetrinitramine]	121-82-4	Solid	1.8200	Pounds	ACG	400	Nitramine, explosive.
RDX and HMX mixtures		121-82-4	Solid	1.8200	Pounds	ACG	400	Nitramine, explosive.
Sarin	[o-Isopropyl methylphosphonofluoridate]	107-44-8	Liquid	1.0887	Grams	ACG	100g	CWC Sched. 1, nerve agent.
Selenium hexafluoride		7783-79-1	Gas	8.4670	Pounds	1.67	15	Gaseous electric insulator
Sesquimustard	[1,2-Bis(2-chloroethylthio)ethane]	3563-36-8	Liquid	1.1793	Grams	ACG	100g	CWC Sched. 1, sulfur mustard, blister agent.
Silicon tetrachloride	Tetrachlorosilane	10026-04-7	Liquid	1.4830	Pounds	ACG	1001	
Silicon tetrafluoride		7783-61-1	Gas	0.0047	Pounds	15	45	Manufacture of fluosilicic acid; intermediate in manufacture of pure silicon.
Sodium azide		26628-22-8	Solid	1.8460	Pounds	ACG	400	Automobile airbag explosive.
Sodium chlorate		7775-09-9	Solid	2.5000	Pounds	ACG	400	Oxidizer.
Sodium cyanide		143-33-9	Solid	1.5950	Pounds	ACG	1001	Chemical weapon precursor. Evolves toxic HCN.
Sodium hydrosulfite	[Sodium dithionite]	7775-14-6	Solid	2.1900	Pounds	ACG	1001	Water reactive, evolves toxic H2S/SO2. Flammable solid.
Sodium nitrate		7631-99-4	Solid	2.2610	Pounds	ACG	400	Oxidizer.
Sodium phosphide		12058-85-4	Solid		Pounds	ACG	any amount	Water reactive, produces toxic PH3.
Soman	[o-Pinacolyl methylphosphonofluoridate]	96-64-0	Liquid	1.0222	Grams	ACG	100g	CWC Sched. 1, nerve agent.
Stibine		7803-52-3	Gas	5.48 g/l	Pounds	0.67	15	Hydride of antimony. Toxic, unstable, flammable, decomposition can be explosive.
Strontium phosphide		12504-16-4	Solid	2.6800	Pounds	ACG	any amount	Manufacture of dyes and optical bleaches; crystals are used as phosphors and scintillators.
Sulfur dioxide (anhydrous)		7446-09-5	Gas	2.8110	Pounds	84	500	
Sulfur tetrafluoride	[Sulfur fluoride (SF4), (T-4)-]	7783-60-0	Gas	1.9500	Pounds	1.33	15	Fluorinating agent for making water and oil repellants; lubricity improvers.
Sulfuryl chloride		7791-25-5	Liquid	1.6650	Pounds	ACG	1001	
Tabun	[o-Ethyl-N,N-dimethylphosphoramido-cyanidate]	77-81-6	Liquid	1.0730	Grams	ACG	100g	CWC Sched. 1, nerve agent.
Tellurium hexafluoride		7783-80-4	Gas	2.4990	Pounds	0.83	15	
Tetranitroaniline	TNA	53014-37-2	Solid	1.5700	Pounds	ACG	400	Explosive.
Tetrazene	[Guanyl nitrosaminoguanyltetrazene]	109-27-3			Pounds	ACG	400	Explosive.
1H-Tetrazole		288-94-8	Solid	700 kg/m3 (bulk)	Pounds	ACG	400	Explosive when heated, forms explosive compounds with metals. Pharmaceutical intermediate.
Thiodiglycol	[Bis(2-hydroxyethyl)sulfide]	111-48-8	Liquid	1.1793	Pounds	30	2.2	Intermediate for elastomers and antioxidants; solvent for dyes in textile printing. CWC Sched. 2, blister agent degradation product/precursor.
Thionyl chloride		7719-09-7	Liquid	1.6310	Pounds	ACG	1001	CWC Sched. 3, precursor.
Titanium tetrachloride	[Titanium chloride (TiCl4) (T-4)-]	7550-45-0	Liquid	1.7260	Pounds	ACG	45/any amount	Iridescent effect in glass; smoke screens; titanium pigments; polymerization catalyst.

* Note: Consult manufactures chemical specifications for actual values

** Min. Conc. = Minimum Concentration in %, ACG = Any Commercial Grade

*** For Theft and/or Sabotage

**** CWC = U.S. Chemical Warfare Convention Schedules 1, 2, 3

US Department of Homeland Security (DHS)
Chemical Facility Anti-Terrorism Standards (CFATS)
Chemicals of Interest "For Laboratories"

Chemical Of Interest	Synonym	CAS	Physical State*	Specific Gravity/Density*	CFATS Reporting Units	Min. Conc. (%)**	Facility*** Screening Threshold (pounds)	Notes****
TNT	[Trinitrotoluene]	118-96-7	Solid	1.6540	Pounds	ACG	400	Nitroaromatic, explosive.
Torpex	[Hexotonal]	67713-16-0	Solid	1.82 g/cc	Pounds	ACG	400	Ternary explosive.
Trichlorosilane	[Silane, trichloro-]	10025-78-2	Liquid	1.3417	Pounds	ACG	any amount	Water reactive, evolves toxic HCl, Intermediate for purification of silicone.
Triethanolamine		102-71-6	Liquid	1.1242	Pounds	80	220	Numerous industrial uses. CWC Sched. 3, blister agent precursor.
Triethanolamine hydrochloride		637-39-8	Solid		Pounds	80	220	Blister agent degradation product/precursor.
Triethyl phosphite		122-52-1	Liquid	0.9690	Pounds	80	220	CWC Sched. 3, precursor.
Trifluoroacetyl chloride		354-32-5	Gas		Pounds	6.93	45	
Trifluorochloroethylene	[Ethene, chlorotrifluoro]	79-38-9		1.3050	Pounds	66.67	500	
Trimethylchlorosilane	[Silane, chlorotrimethyl-]	75-77-4		0.8580	Pounds	ACG	1001	Water reactive, evolves HCl.
Trimethyl phosphite		121-45-9	Liquid	1.0460	Pounds	80	220	CWC Sched. 3, precursor.
Trinitroaniline	Picramide	26952-42-1	Solid	1.7620	Pounds	ACG	400	Nitroexplosive.
Trinitroanisole	Methyl picrate	606-35-9	Solid	1.4000	Pounds	ACG	400	Nitroexplosive.
Trinitrobenzene	TNB	99-35-4	Slurry	1.6880	Pounds	ACG	400	Flammable solid, explosive when dry.
Trinitrobenzenesulfonic acid	Picryl sulfonic acid	2508-19-2		1.1400	Pounds	ACG	400	Explosive.
Trinitrobenzoic acid	TNBA	129-66-8	Solid		Pounds	ACG	400	High Explosive.
Trinitrochlorobenzene	Picrylchloride	88-88-0	Solid	1.7970	Pounds	ACG	400	Nitroexplosive.
Trinitrofluorenone		129-79-3	Solid		Pounds	ACG	400	Explosive.
Trinitro-meta-cresol	2,4,6-Trinitro-m-cresol	602-99-3			Pounds	ACG	400	Explosive.
Trinitronaphthalene		55810-17-8			Pounds	ACG	400	Explosive.
Trinitrophenetole		4732-14-3			Pounds	ACG	400	Nitroexplosive.
Trinitrophenol	Picric acid	88-89-1	Liquid	1.7630	Pounds	ACG	400	Explosive when dry.
Trinitroresorcinol	Styphnic acid	82-71-3			Pounds	ACG	400	Nitroexplosive.
Tritonal	80% TNT and 20% aluminum powder	54413-15-9			Pounds	ACG	400	Nitroexplosive.
Tungsten hexafluoride		7783-82-6	Gas		Pounds	7.1	45	Vapor-phase deposition of tungsten; fluorinating agent.
Vinyltrichlorosilane		75-94-5		1.2426	Pounds	ACG	1001	Water reactive, evolves toxic HCl.
VX	[o-Ethyl-S-2-diisopropylaminoethyl methyl phosphonothiolate]	50782-69-9	Liquid	1.0083	Grams	ACG	100g	CWC Sched. 1, nerve agent.
Zinc hydrosulfite	[Zinc dithionite]	7779-86-4	Solid		Pounds	ACG	1001	Strong reducer.

* Note: Consult manufactures chemical specifications for actual values

** Min. Conc. = Minimum Concentration in %, ACG = Any Commercial Grade

*** For Theft and/or Sabotage

**** CWC = U.S. Chemical Warfare Convention Schedules 1, 2, 3