

The following list* of chemicals requires approval from EHS prior to purchase. A registration which provides detailed information on the research protocol, including proposed handling, storage and disposal information, must be submitted in [EHS Integrator](#) for those chemicals which are explosive, pyrophoric/water reactive and acutely toxic. Once submitted, the registration is routed to EHS for review.



Chemical name	Cas #
1,3-bis(2-chloroethylthio)-n-propane	63905-10-2
1,4-bis(2-chloroethylthio)-n-butane	142868-93-7
1,5-bis(2-chloroethylthio)-n-pentane	142868-94-8
1h-tetrazole	288-94-8
2, 4-dinitrophenylhydrazine	119-26-6
2-butanol	78-92-2
2-chloroethyl ethylsulfide	693-07-2
2-chloroethylchloro-methylsulfide	2625-76-5
2-cyanoethyl diisopropylchlorophosphoramidite	89992-70-1
2-ethoxyethanol	110-80-5
2-ethoxyethylacetate	111-15-9
2-methoxyethanol	109-86-4
2-methoxyethylacetate	110-49-6
3-(triethoxysilyl)propyl isocyanate	24801-88-5
5-nitrobenzotriazol	2338-12-7
9-borabicyclo [3.3.1]nonane	280-64-8
Acetal	105-57-7
Acetaldehyde	75-07-0
Acetone cyanohydrin, stabilized	75-86-5
Acrolein	107-02-8
Acrylamide	79-06-1
Acrylic acid	79-10-7
Acrylonitrile	107-13-1
Allylamine	107-11-9
Allylmagnesium bromide	1730-25-2
Allylmagnesium chloride	2622-05-1
Aluminum (powder)	7429-90-5
Aluminum borohydride	16962-07-5
Aluminum phosphide	20859-73-8
Ammonia	7664-41-7
Ammonium bifluoride	1341-49-7
Ammonium nitrate	6484-52-2
Ammonium perchlorate	7790-98-9
Ammonium picrate	131-74-8
Arsenic	7440-38-2

*This list is not exhaustive and there may be additional chemicals which require EHS approval or registration in EHS Integrator prior to purchase. Contact your Safety Advisor if there is a question about a specific chemical not on this list.

REV: August 2024

Chemical name	Cas #
Arsenic trichloride	7784-34-1
Arsenic trioxide	1327-53-3
Arsine	7784-42-1
Barium azide	18810-58-7
Benzoyl peroxide	94-36-0
Benzyl alcohol	100-51-6
Beryllium	7440-41-7
Beryllium chloride	77-47-5
Beryllium oxide	1304-56-9
Bis(2-chloroethylthio)methane	63869-13-6
Bis(2-chloroethylthiomethyl)ether	63918-90-1
Bis(cyclopentadienyl)magnesium	1284-72-6
Bis(ethylcyclopentadienyl)manganese(ii)	101923-26-6
Borane tetrahydrofuran complex	14044-65-6
Boron tribromide	10294-33-4
Boron trichloride	10294-34-5
Boron trifluoride	7637-07-2
Bromine	7726-95-6
Bromine chloride	13863-41-7
Bromine pentafluoride	7789-30-2
Bromine trifluoride	7787-71-5
Butadiene (liquid)	106-99-0
Butyl peroxydicarbonate	16215-4-9
Butylmagnesium chloride	693-04-9
Cadmium	7440-43-9
Calcium hydride	7789-78-8
Calcium phosphide	1305-99-3
Carbon monoxide	630-08-0
Carbonyl fluoride	353-50-4
Carbonyl sulfide	463-58-1
Chlorine	7782-50-5
Chlorine dioxide	10049-04-4
Chlorine pentafluoride	13637-63-3
Chlorine trifluoride	7790-91-2
Chloroacetyl chloride	79-04-9
Chlorobutadiene	184963-09-5
Chloroprene	126-99-8
Chlorosarin	1445-76-7
Chlorosoman	7040-57-5
Chlorosulfonic acid	7790-94-5

Chemical name	Cas #
Chlorotrifluoroethylene (gas)	79-38-9
Chromium (vi)	7440-47-3
Cumene	98-82-8
Cyanogen	460-19-5
Cyanogen bromide	506-68-3
Cyanogen chloride	506-77-4
Cycloheptylmagnesium bromide	78378-12-8
Cyclohexanone peroxide	78-18-2
Cyclohexene	110-83-8
Cycloheximide	66-81-9
Cyclooctene	931-88-4
Cyclopentene	142-29-0
Df	676-99-3
Diazodinitrophenol	87-31-0
Diborane	19287-45-7
Dichloroborane	13701-67-2
Dichloroisopropylphosphine, 97%	25235-15-8
Dichlorosilane	4109-96-0
Dicyclopentadiene	77-73-6
Diethyl ether	60-29-7
Diethyl methylphosphonite	15715-41-0
Diethyl zinc	557-20-0
Diethylene glycol dimethyl ether (diglyme)	111-96-6
Diethylene glycol dimethyl ether (diglyme)	111-96-6
Diethyleneglycol dinitrate	693-21-0
Diisobutylaluminum chloride	1779-25-5
Diisobutylaluminum hydride	1191-15-7
Dimethyl sulfate	77-78-1
Dimethyl zinc	544-97-8
Dimethylmercury	593-74-8
Dingu	55510-04-8
Dinitrogen tetroxide	10544-72-6
Dinitrophenol	25550-58-7
Dinitroresorcinol	519-44-8
Dioxane (p-dioxane)	123-91-1
Diphenylphosphine	829-85-6
Dipicryl sulfide	2217-06-3
Dipicrylamine (or hexanitrodiphenylamine)	131-73-7
Disodium tetracarbonyl ferrate dioxane complex	59733-73-2
Di-t-butylmethylphosphine	6002-40-0

Chemical name	Cas #
Di-tert-butylphosphine	819-19-2
Divinyl acetylene	689-97-4
Divinyl ether	109-93-3
Epinephrine	51-43-4
Ethyl acrylate	140-88-5
Ethyl phosphonyl difluoride	753-98-0
Ethyldiethanolamine (≥80%)	139-87-7
Ethylene dibromide	106-93-4
Ethylene glycol dimethyl ether (glyme)	110-80-5
Ethylene oxide	75-21-8
Ethyleneimine	151-56-4
Ethyllithium	811-49-9
Ethylmagnesium bromide	925-90-6
Ethylphosphonothioic dichloride	993-43-1
Fluorine	7782-41-4
Furan	110-00-9
Germane	7782-65-2
Germanium tetrafluoride	7783-58-6
Hexaethyl tetraphosphate	757-58-4
Hexafluoroacetone	684-16-2
Hexamethylditin	661-69-8
Hexanitrostilbene	20062-22-0
Hexolite	121-82-4
Hexyllithium	21369-64-2
Hmx	2691-41-0
Hn1 (nitrogen mustard-1)	538-07-8
Hn2 (nitrogen mustard-2)	51-75-2
Hn3 (nitrogen mustard-3)	555-77-1
Hydrogen	1333-74-0
Hydrogen bromide	10035-10-6
Hydrogen chloride	7647-01-0
Hydrogen cyanide	74-90-8
Hydrogen fluoride/hydrofluoric acid	7664-39-3
Hydrogen iodide	10034-85-2
Hydrogen selenide	7783-07-5
Hydrogen sulfide	7783-06-4
Iodomethane	74-88-4
Iron pentacarbonyl	13463-40-6
Isobutylmagnesium bromide	926-62-5
Isobutylmagnesium chloride	5674-02-2

Chemical name	Cas #
Isopropyl ether	108-20-3
Isopropylmagnesium chloride	1068-55-9
Isopropylphosphonothioic dichloride	1498-60-8
Isopropylphosphonyl difluoride	677-42-9
Lead azide	13424-46-9
Lead nitrate	10099-74-8
Lead styphnate	15245-44-0
Lewisite 1	541-25-3
Lewisite 2	40334-69-8
Lewisite 3	40334-70-1
Lithium	7439-93-2
Lithium aluminum hydride	16853-85-3
Lithium amide	7782-89-0
Lithium borohydride	16949-15-8
Lithium diisopropylamide	4111-54-0
Lithium diisopropylamide	4111-54-0
Lithium dimethylamide	3585-33-9
Lithium hydride	7580-67-8
Lithium nitride	26134-62-3
Lithium tert-butoxide	1907-33-1
Magnesium (powder)	7439-95-4
Magnesium phosphide	12057-74-8
MDEA (≥80%)	105-59-9
Mercury - metallic	7439-97-6
Mercury fulminate	628-86-4
Mercury(ii) oxide red	21908-53-2
Methyl acetylene	74-99-7
Methyl chloromethyl ether	107-30-2
Methyl cyclopentane	96-37-7
Methyl ethyl ketone peroxide	1338-23-4
Methyl isobutyl ketone	108-10-1
Methyl isobutyl ketone peroxide	37206-20-5
Methyl mercaptan	74-93-1
Methyl methacrylate	80-62-6
Methylchlorosilane	993-00-0
Methyldichlorosilane	75-54-7
Methylhydrazine	60-34-4
Methylithium	917-54-4
Methylmagnesium bromide	75-16-1
Methylmagnesium chloride	676-58-4

Chemical name	Cas #
Methylmagnesium iodide	917-64-6
Methylphosphonothioic dichloride	676-98-2
Molybdenum carbonyl	13939-06-5
MPTP	28289-54-5
N,n-(2-diethylamino)ethanethiol	100-38-9
N,N-(2-diisopropylamino)ethanethiol	5842-07-9
N,N-(2-dimethylamino)ethanethiol	108-02-1
N,N-(2-dipropylamino)ethanethiol	5842-06-8
N,N-diethyl phosphoramidic dichloride	1498-54-0
N,N-diisopropyl phosphoramidic dichloride	23306-80-1
N,N-dimethyl phosphoramidic dichloride	677-43-0
N,N-dipropyl phosphoramidic dichloride	40881-98-9
N-butyl vinyl ether	111-34-2
N-butyllithium	109-72-8
Nickel carbonyl	13463-39-3
Nicotine	54-11-5
Nitric oxide	10102-43-9
Nitrobenzene	98-95-3
Nitrocellulose	9004-70-0
Nitrogen dioxide	10102-44-0
Nitrogen mustard hydrochloride	55-86-7
Nitrogen trioxide	10544-73-7
Nitroglycerine	55-63-0
Nitromannite	15825-70-4
Nitromethane	75-52-5
Nitrostarch	9056-38-6
Nitrosyl chloride	2696-92-6
Nitrotriazolone	932-64-9
O,O-diethyl s-[2-(diethylamino)ethyl] phosphorothiolate	78-53-5
Octolite	57607-37-1
Octonal	78413-87-3
O-mustard (t)	63918-89-8
Osmium tetroxide	20816-12-0
Ouabain octahydrate	11018-89-6
Oxygen difluoride	7783-41-7
Pentaborane	19624-22-7
Pentolite	8066-33-9
Perchloryl fluoride	7616-94-6
Petn	78-11-5
Phenyllithium	591-51-5

Chemical name	Cas #
Phenylthiourea	103-85-5
Phosgene	75-44-5
Phosphine	7803-51-2
Phosphorus (red)	7723-14-0
Phosphorus oxychloride	10025-87-3
Phosphorus pentasulfide	1314-80-3
Phosphorus trichloride	7719-12-2
Picric acid	88-89-1
Picrite	556-88-7
Polyboranes	
Potassium	7440-03-7
Potassium (metal)	7440-09-7
Potassium amide	17242-52-3
Potassium chlorate	3811-04-9
Potassium cyanide	151-50-8
Potassium ethoxide	917-58-8
Potassium hydride	7693-26-7
Potassium methoxide	865-33-8
Potassium nitrate	7757-79-1
Potassium perchlorate	7778-74-7
Potassium permanganate	7722-64-7
Potassium phosphide	20770-41-6
Potassium tert-butoxide	865-47-4
Propargyl alcohol	107-19-7
Propylene oxide	75-56-9
Propyllithium	1888-75-1
Propylphosphonothioic dichloride	2524-01-8
Propylphosphonyl difluoride	690-14-2
QI	57856-11-8
RDX	121-82-4
Sarin	107-44-8
S-butyllithium	598-30-1
Scopolamine hydrobromide trihydrate	6533-68-2
Sec-butylmagnesium chloride	15366-08-2
Selenium hexafluoride	7783-79-1
Sesquimustard	3563-36-8
Silane	7803-62-5
Silicon tetrafluoride	7783-61-1
Sodium	7440-23-5
Sodium amide (sodamide)	7782-92-5

Chemical name	Cas #
Sodium azide	26628-22-8
Sodium borodeuteride	15681-89-7
Sodium borohydride	16940-66-2
Sodium chlorate	7775-09-9
Sodium cyanide	143-33-9
Sodium cyclopentadienide	4984-82-1
Sodium hydride	7646-69-7
Sodium methoxide	124-41-4
Sodium nitrate	7631-99-4
Sodium phosphide	12058-85-4
Sodium tert-butoxide	865-48-5
Soman	96-64-0
Stibine	7803-52-3
Strontium phosphide	12504-16-4
Styrene	100-42-5
Sulfur dioxide	7446-09-5
Sulfur mustard	505-60-2
Sulfur tetrafluoride	7783-60-0
Super-hydride (lithium triethylborohydride)	22560-16-3
Tabun	77-81-6
T-butyl lithium	594-19-4
Tellurium hexafluoride	7783-80-4
Tetraethyl lead	78-00-2
Tetrafluoroethylene	116-14-3
Tetrahydrofuran	109-99-9
Tetrahydronaphthalene	119-64-2
Tetramethyl ammonium hydroxide	75-59-2
Tetramethyl lead	75-74-1
Tetranitroaniline	53014-37-2
Tetrazene	109-27-3
Thiodiglycol	111-48-8
Thiophenol	108-98-5
Titanium (ii) chloride	10049-06-6
Titanium tetrachloride	7550-45-0
TNT	118-96-7
Torpex	67713-16-0
Tributylaluminum	1116-70-7
Tributylborane	122-56-5
Tributylphosphine	998-40-3
Trichlorosilane	10025-78-2

Chemical name	Cas #
Trichlorosilane	10025-78-2
Triethanolamine (≥80%)	102-71-6
Triethanolamine hydrochloride (≥80%)	637-39-8
Triethyl phosphite (≥80%)	122-52-1
Triethyl phosphine	554-70-1
Triethylaluminum	97-93-8
Triethylborane	97-94-9
Trifluoroacetyl chloride	354-32-5
Trifluorochloroethylene	79-38-9
Trimethyl phosphite (≥80%)	121-45-9
Trimethylaluminum	75-24-1
Trimethylgallium	1445-79-0
Trimethylindium	3385-78-2
Trimethylsilyl cyanide	7677-24-9
Trimethylsilyl diazomethane	18107-18-1
Trimethyltin chloride	1066-45-1
Trimethyltin hydroxide	56-24-6
Tri-n-butylphosphine	998-40-3
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
Tri-tert-butylphosphine	13716-12-6
Tritonal	54413-15-9
Tungsten hexafluoride	7783-82-6
Vinyl acetate	108-05-4
Vinyl acetylene (gas)	689-97-4
Vinyl chloride	75-01-4
Vinyl pyridine	100-43-6
Vinylidene chloride (liquid)	75-35-4
Vinylmagnesium bromide	1826-67-1
VX	50782-69-9

Chemical name	Cas #
White phosphorus (phosphorus tetramer)	12185-10-3