

Chemical & CAS Number Quick Reference Guide

Reviewing a Safety Data Sheet (SDS)? Use this guide to find the matching EMT vapor monitoring badge. Some entries are mixtures or groups of chemicals, and some offer both an individual chemical and an “all isomers” option. If your chemical isn't listed, or you're not sure which option you need, contact EMT and send your SDS. A CAS number is listed to help identify a chemical; each badge page shows the monitoring options EMT offers.

Chemical	Also Known As	CAS Number
Acetic Acid	Ethanoic acid	64-19-7
Acetone	2-Propanone; dimethyl ketone	67-64-1
Acetonitrile	Methyl cyanide; cyanomethane	75-05-8
Acetophenone	Methyl phenyl ketone	98-86-2
Acrolein	2-Propenal	107-02-8
Acrylonitrile	Vinyl cyanide; 2-propenenitrile	107-13-1
Allyl Alcohol	2-Propen-1-ol	107-18-6
Allyl Chloride	3-Chloropropene	107-05-1
Ammonia	Ammonia gas; NH ₃	7664-41-7
Aniline	Aminobenzene; phenylamine	62-53-3
Benzene	Benzol	71-43-2
Benzyl Acetate	Acetic acid benzyl ester	140-11-4
Benzyl Alcohol	Phenylmethanol	100-51-6
Benzyl Chloride	alpha-Chlorotoluene	100-44-7
Biphenyl	Diphenyl	92-52-4
BTEX	Benzene, toluene, ethylbenzene, xylene (a group of four chemicals)	Group of chemicals – see each component: Benzene: 71-43-2 Toluene: 108-88-3 Ethylbenzene: 100-41-4 Xylene: multiple isomers
BTEX + Saturated Hydrocarbons	BTEX plus saturated hydrocarbons (a group of chemicals)	Group of chemicals – see individual components
1,3 Butadiene	Butadiene	106-99-0
Butyl Acetates – Multiple Isomers	Butyl acetate; butyl acetates, all isomers	Butyl acetates, all isomers (combination badge): multiple CAS numbers may apply Individual isomers: n-Butyl acetate: 123-86-4 Isobutyl acetate: 110-19-0 sec-Butyl acetate: 105-46-4 tert-Butyl acetate: 540-88-5
Butyl Cellosolve (2-Butoxyethanol)	Ethylene glycol monobutyl ether; EGBE	111-76-2
Camphor		76-22-2
Carbon Tetrachloride	Tetrachloromethane	56-23-5
Carbonyl Sulfide	Carbon oxysulfide; COS	463-58-1
Cellosolve (2-Ethoxyethanol)	Ethylene glycol monoethyl ether	110-80-5

Chemical	Also Known As	CAS Number
Chlorobenzene	Monochlorobenzene	108-90-7
Chloroform	Trichloromethane	67-66-3
Cumene	Isopropylbenzene	98-82-8
Cyclohexane		110-82-7
Cyclohexanol		108-93-0
Cyclohexanone		108-94-1
Cyclopentane		287-92-3
Diacetone Alcohol	4-Hydroxy-4-methyl-2-pentanone	123-42-2
Diacetyl	2,3-Butanedione	431-03-8
1,2-Dibromoethane	Ethylene dibromide; EDB	106-93-4
Dichloroethane	1,1-Dichloroethane; 1,2-Dichloroethane (two different chemicals)	1,1-Dichloroethane: 75-34-3 1,2-Dichloroethane: 107-06-2 These are two different chemicals – check your SDS for the one you use
Diesel Fuel	Diesel; diesel oil (a mixture of hydrocarbons)	Mixture of chemicals – not a single chemical. CAS varies by formulation
Diethylene Glycol Monobutyl Ether	2-(2-Butoxyethoxy)ethanol; butyl carbitol	112-34-5
Dimethylformamide	N,N-Dimethylformamide; DMF	68-12-2
Dioxane	1,4-Dioxane; p-dioxane	1,4-Dioxane (individual chemical): 123-91-1 Other dioxane isomers have different CAS numbers
Epichlorohydrin	1-Chloro-2,3-epoxypropane	106-89-8
Ethanolamine	Monoethanolamine; MEA; 2-aminoethanol	141-43-5
Ethyl Acetate	Ethyl ethanoate; acetic acid ethyl ester	141-78-6
Ethyl Acrylate	Ethyl 2-propenoate; acrylic acid ethyl ester	140-88-5
Ethyl Alcohol	Ethanol; grain alcohol; EtOH	64-17-5
Ethyl Benzene	Phenylethane	100-41-4
Ethyl Ether	Diethyl ether	60-29-7
Ethyl Formate	Formic acid ethyl ester	109-94-4
Ethylene Diamine	1,2-Diaminoethane	107-15-3
Ethylene Glycol	1,2-Ethanediol	107-21-1
Ethylene Oxide	Oxirane; EtO	75-21-8
Formaldehyde	Methanal	50-00-0
Furfuryl Alcohol	2-Furanmethanol	98-00-0
Gasoline	Motor gasoline; petrol (a mixture of hydrocarbons)	Mixture of chemicals – not a single chemical. CAS varies by formulation
Glutaraldehyde	Pentanedial	111-30-8

Chemical	Also Known As	CAS Number
Halogenated Anesthetics	Isoflurane; sevoflurane; desflurane; halothane	Isoflurane: 26675-46-7 Sevoflurane: 28523-86-6 Desflurane: 57041-67-5 Halothane: 151-67-7
Heptane	n-Heptane; heptane, all isomers	Heptane, all isomers: multiple CAS numbers may apply depending on the specific isomer For reference, n-heptane: 142-82-5
Hexane	n-Hexane	n-Hexane (individual chemical): 110-54-3 Other hexane isomers have different CAS numbers
Hydrogen Peroxide	H2O2	7722-84-1
Hydroquinone	1,4-Benzenediol	123-31-9
Isobutane	2-Methylpropane	75-28-5
Isooctane	2,2,4-Trimethylpentane	540-84-1
Isophorone	3,5,5-Trimethyl-2-cyclohexen-1-one	78-59-1
Isopropyl Acetate	Acetic acid isopropyl ester; 1-methylethyl acetate	108-21-4
Isopropyl Alcohol	Isopropanol; 2-propanol; IPA	67-63-0
m-Cresol	3-Methylphenol	108-39-4
Mercury (Elemental Vapor)	Mercury vapor; elemental mercury; Hg	7439-97-6
Methanol (Methyl Alcohol)	Methyl alcohol; wood alcohol; MeOH	67-56-1
Methyl Acetate	Methyl ethanoate; acetic acid methyl ester	79-20-9
Methyl Acrylate	Methyl 2-propenoate; acrylic acid methyl ester	96-33-3
Methyl Chloroform (1,1,1-Trichloroethane)	1,1,1-Trichloroethane; 1,1,1-TCA	71-55-6
Methyl Ethyl Ketone (2-Butanone)	2-Butanone; MEK	78-93-3
Methyl Formate	Formic acid methyl ester	107-31-3
Methyl Isobutyl Ketone (MIBK)	4-Methyl-2-pentanone; MIBK; hexone	108-10-1
Methyl Methacrylate	MMA	80-62-6
Methyl t-Butyl Ether	tert-Butyl methyl ether; MTBE	1634-04-4
Methylcyclohexane		108-87-2
Methylene Chloride (Dichloromethane)	Dichloromethane; DCM; methylene dichloride	75-09-2
Naphthalene		91-20-3
Nitromethane		75-52-5
Nitrous Oxide	Laughing gas; N2O	10024-97-2
Nonane	n-Nonane; nonane, all isomers	n-Nonane (individual chemical): 111-84-2 Nonane, all isomers (combination option): multiple CAS numbers may apply

Chemical	Also Known As	CAS Number
Ortho-Phthalaldehyde (OPA)	Ortho-phthalaldehyde; o-phthalaldehyde	643-79-8
Pentane	n-Pentane; pentane, all isomers	n-Pentane (individual chemical): 109-66-0 Pentane, all isomers (combination option): multiple CAS numbers may apply
Perchloroethylene (Tetrachloroethylene)	Tetrachloroethylene; PCE; perc	127-18-4
Phenol	Carbolic acid	108-95-2
Propargyl Alcohol	2-Propyn-1-ol	107-19-7
Propylene Oxide	1,2-Epoxypropane; methyloxirane	75-56-9
Pyridine		110-86-1
Sec-Butyl Alcohol (2-Butanol)	2-Butanol; sec-butanol	78-92-2
Styrene	Vinylbenzene; ethenylbenzene	100-42-5
Tetrahydrofuran	THF; oxolane	109-99-9
Toluene	Methylbenzene; toluol	108-88-3
1,1,2-Trichloroethane	1,1,2-TCA	79-00-5
Trichloroethylene (TCE)	TCE; trichloroethene	79-01-6
Triethylamine	TEA	121-44-8
Vinyl Acetate	Acetic acid ethenyl ester	108-05-4
Vinyl Chloride	Chloroethene	75-01-4
Xylene	Xylol; dimethylbenzene (o-, m-, p- isomers)	Xylene, mixed isomers: 1330-20-7 Individual isomers: o-Xylene: 95-47-6 m-Xylene: 108-38-3 p-Xylene: 106-42-3

To view a monitoring badge, search for the chemical name at emt-badges.com. Need to monitor several chemicals at once? See the Full Scan badge.

This guide is for chemical identification and reference purposes only. It does not interpret monitoring results or determine regulatory compliance. Always confirm the chemicals in your workplace against your Safety Data Sheets. If you are unsure which chemical or option you need, contact EMT at emt-badges.com/contact.html or (904) 489-0818.