

Appendix 4. Compound names used in this report, International Union of Pure and Applied Chemistry (IUPAC) names, Chemical Abstract Service (CAS) numbers, predominant use group, and other use information in alphabetical order.

[--, not applicable or no information available]

Compound name	IUPAC name (If different from this report's name)	CAS number	Predominant use group (or source)	Other uses as parent compound or additive and remarks ¹
Acrolein	2-Propenal	107-02-8	Organic synthesis	Herbicide; algicide; biocide; leather tanning; protein supplements in poultry feed
Acrylonitrile	2-Propenenitrile	107-13-1	Organic synthesis	Former fumigant for milling and bakery equipment and for stored tobacco
<i>tert</i> -Amyl methyl ether (TAME)	2-Methoxy-2-methylbutane	994-05-8	Gasoline oxygenate	--
Benzene	--	71-43-2	Gasoline hydrocarbon	Solvent; organic synthesis
Bromodichloromethane	--	75-27-4	Trihalomethane (chlorination by-product)	Organic synthesis
Bromoform	Tribromomethane	75-25-2	Trihalomethane (chlorination by-product)	Solvent; pharmaceutical manufacturing; ingredient of fire resistant chemicals and gauge fluid
Bromomethane	--	74-83-9	Fumigant	Chemical intermediate; solvent
<i>n</i> -Butylbenzene	--	104-51-8	Gasoline hydrocarbon	--
Carbon tetrachloride	Tetrachloromethane	56-23-5	Solvent	Manufacture of chlorofluorocarbons; dry cleaning; fire extinguishers; organic synthesis; agriculture
Chlorobenzene	--	108-90-7	Solvent	Organic synthesis; insecticides
Chloroethane	--	75-00-3	Solvent	Used in the production of tetraethyl lead for gasoline, cellulose, chemicals, and pharmaceuticals
Chloroform	Trichloromethane	67-66-3	Trihalomethane (chlorination by-product)	Industrial solvent; extractant; chemical intermediate
Chloromethane	--	74-87-3	Solvent	Chemical intermediate for production of silicones, agricultural chemicals, and cellulose
Dibromochloromethane	--	124-48-1	Trihalomethane (chlorination by-product)	Chemical intermediate for manufacture of aerosol propellants, refrigerants, pesticides, fire extinguishing agents

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Dibromochloropropane (DBCP)	1,2-Dibromo-3-chloropropane	96-12-8	Fumigant	Nematocide; fumigant used until 1979 except on pineapples in Hawaii until 1985
1,2-Dichlorobenzene	--	95-50-1	Solvent	Intermediate for making herbicides and insecticides
1,3-Dichlorobenzene	--	541-73-1	Solvent	--
1,4-Dichlorobenzene	--	106-46-7	Fumigant	Insecticide and fungicide; organic synthesis; garbage and restroom deodorant
Dichlorodifluoromethane (CFC-12)	--	75-71-8	Refrigerant	--
1,1-Dichloroethane (1,1-DCA)	--	75-34-3	Solvent	Manufacture of plastic wrap, adhesives, and synthetic fiber
1,2-Dichloroethane (1,2-DCA)	--	107-06-2	Solvent	Chemical intermediate for manufacture of vinyl chloride, solvents, and fluorocarbons; fumigant; ingredient in paints and leaded gasoline
1,1-Dichloroethene (1,1-DCE)	--	75-35-4	Organic synthesis	PVC (plastics); adhesives; refrigerants
<i>cis</i> -1,2-Dichloroethene (<i>cis</i> -1,2-DCE)	--	156-59-2	Solvent	Refrigerant; pharmaceutical manufacture; artificial pearl manufacture; extraction of fats from fish and meat; organic synthesis
<i>trans</i> -1,2-Dichloroethene (<i>trans</i> -1,2-DCE)	--	156-60-5	Solvent	Refrigerant; pharmaceutical manufacture; artificial pearl manufacture; extraction of fats from fish and meat; organic synthesis
1,2-Dichloropropane	--	78-87-5	Fumigant	Organic synthesis; former soil fumigant; stain remover; ingredient in gasoline
<i>cis</i> -1,3-Dichloropropene	--	10061-01-5	Fumigant	Solvent; chemical intermediate
<i>trans</i> -1,3-Dichloropropene	--	10061-02-6	Fumigant	Solvent; chemical intermediate
Diisopropyl ether (DIPE)	2,2-Oxybis[propane]	108-20-3	Gasoline oxygenate	Solvent; chemical intermediate in organic synthesis

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Ethyl <i>tert</i> -butyl ether (ETBE)	2-Ethoxy-2-methylpropane	637-92-3	Gasoline oxygenate	--
Ethylbenzene	--	100-41-4	Gasoline hydrocarbon	Solvent; production of styrene
Ethylene dibromide (EDB)	1,2-Dibromoethane	106-93-4	Fumigant	Former pesticide; solvent for resins, gums, and waxes; waterproofing preparations; dyes and pharmaceuticals; additive in leaded gasoline and aviation fuel
Hexachlorobutadiene	1,1,2,3,4,4-Hexachloro-1,3-butadiene	87-68-3	Organic synthesis	Heat transfer fluid; wash oil in chemical industry; solvent
Hexachloroethane	1,1,1,2,2,2-Hexachloroethane	67-72-1	Solvent	Military smoke and pyrotechnic devices; organic synthesis; fire extinguishing fluids; lubricants
Isopropylbenzene	(1-Methylethyl) benzene	98-82-8	Gasoline hydrocarbon	--
Methyl <i>tert</i> -butyl ether (MTBE)	2-Methoxy-2-methylpropane	1634-04-4	Gasoline oxygenate	Formerly used to dissolve gallstones; laboratory reagent for semi-volatile organic compound extraction from liquids and solids
Methylene chloride	Dichloromethane	75-09-2	Solvent	Aerosol propellant; paint remover; solvent for spice oleoresins; caffeine extractant; fumigant for strawberries and grains; pharmaceuticals
Naphthalene	--	91-20-3	Gasoline hydrocarbon	Mothballs; insecticide; organic synthesis; solvent
Perchloroethene ² (PCE)	Tetrachloroethene	127-18-4	Solvent	Chemical intermediate; dry cleaning; textile processing
<i>n</i> -Propylbenzene	--	103-65-1	Solvent	--
Styrene	Ethenylbenzene	100-42-5	Gasoline hydrocarbon	Coatings; paint; rubber; adhesives
Toluene	Methylbenzene	108-88-3	Gasoline hydrocarbon	Solvents; production of urethane
1,2,3-Trichlorobenzene	--	87-61-6	Organic synthesis	--

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1,2,4-Trichlorobenzene	--	120-82-1	Solvent	Dye carrier; herbicides; wood preservatives; former soil treatment for termite control
1,1,1-Trichloroethane (TCA)	--	71-55-6	Solvent	Dyeing; textile processing; ingredient in cosmetics; aerosol products
1,1,2-Trichloroethane	--	79-00-5	Solvent	Manufacture of vinylidene chloride, an intermediate for making synthetic fibers and plastic wraps
Trichloroethene ³ (TCE)	1,1,2-Trichloroethene	79-01-6	Solvent	Caffeine extractant; dry-cleaning; paint and ink formulation; rubber processing industries
Trichlorofluoromethane (CFC-11)	--	75-69-4	Refrigerant	Foaming agent; aerosol propellant
1,2,3-Trichloropropane	--	96-18-4	Fumigant	Solvent; degreaser
Trichlorotrifluoroethane (CFC-113)	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	Refrigerant	Foaming agent; aerosol propellant
1,2,4-Trimethylbenzene	--	95-63-6	Gasoline hydrocarbon	Solvents; dye and perfume manufacture; organic synthesis
Vinyl bromide	Bromoethene	593-60-2	Organic synthesis	Flame retardant
Vinyl chloride	Chloroethene	75-01-4	Organic synthesis	Rubber, paper, glass industries; PVC intermediate; small quantities in food wrappings & containers
<i>m</i> - and <i>p</i> -Xylene ⁴	1,3- and 1,4-Dimethylbenzene	108-38-3 106-42-3	Gasoline hydrocarbon	Chemical intermediate for the manufacture of polyesters, vitamins, and pharmaceuticals; ingredient in paint, thinner, and for <i>p</i> -xylene, insecticides
<i>o</i> -Xylene	1,2-Dimethylbenzene	95-47-6	Gasoline hydrocarbon	Chemical intermediate for the manufacture of plasticizers, polyesters, vitamins, and pharmaceuticals; ingredient in paint, thinner, and insecticides

¹Sources of information on other uses. ^(123, 124, 125, 126, 127, 128, 129)

²Also known as tetrachloroethylene, perchloroethylene, and perc.

³Also known as trichloroethylene.

⁴Considered as 2 of the 55 compounds included in this assessment.