

## Chapter NR 507

## APPENDIX III

VOLATILE ORGANIC COMPOUNDS FOR DETECTION MONITORING<sup>1</sup>  
AT MUNICIPAL SOLID WASTE LANDFILLS

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Synonyms
Acetone <sup>1</sup>	67-64-1	2-Propanone
Benzene	71-43-2	
Bromodichloromethane	75-27-4	Dichlorobromomethane
Bromoform	75-25-2	Tribromomethane
Carbon disulfide <sup>1</sup>	75-15-0	
Carbon tetrachloride	56-23-5	Tetrachloromethane
Chlorobenzene	108-90-7	Monochlorobenzene
Chloroethane	75-00-3	Ethyl chloride
Chloroform	67-66-3	Trichloromethane
Dibromochloromethane	124-48-1	Chlorodibromomethane
1,2-Dibromo-3-chloropropane	96-12-8	DBCP
1,2-Dibromoethane	106-93-4	EDB; Ethylene dibromide
o-Dichlorobenzene	95-50-1	1,2-Dichlorobenzene
m-Dichlorobenzene	541-73-1	1,3-Dichlorobenzene
p-Dichlorobenzene	106-46-7	1,4-Dichlorobenzene
Dichlorodifluoromethane	75-71-8	Freon 12, Difluorodichloromethane
1,1-Dichloroethane	75-34-3	
1,2-Dichloroethane	107-06-2	Ethylene dichloride
1,1-Dichloroethylene	75-35-4	Vinylidene chloride
cis-1,2-Dichloroethylene	156-59-2	cis-1,2-Dichloroethene
trans-1,2-Dichloroethylene	156-60-5	trans-1,2-Dichloroethene
1,2-Dichloropropane	78-87-5	
cis-1,3-Dichloropropylene	10061-01-5	cis-1,3-Dichloropropene, Z-Dichloropropylene
trans-1,3-Dichloropropylene	10061-02-6	trans-1,3-Dichloropropene, E-Dichloropropylene
Ethylbenzene	100-41-4	
Methyl bromide	74-83-9	Bromomethane
Methyl chloride	74-87-3	Chloromethane
Methylene bromide	74-95-3	Dibromomethane
Methylene chloride	75-09-2	Dichloromethane
Methyl ethyl ketone <sup>1</sup>	78-93-3	2-Butanone; MEK
Methyl tert-butyl ether	1634-04-4	MTBE
Naphthalene	91-20-3	
Styrene	100-42-5	Ethenylbenzene
Tetrachloroethylene	127-18-4	Perchloroethylene; Tetrachloroethene; PCE

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Synonyms
Tetrahydrofuran <sup>1</sup>	109-99-9	THF
Toluene	108-88-3	Methylbenzene
1,1,1-Trichloroethane	71-55-6	Methylchloroform
1,1,2-Trichloroethane	79-00-5	
Trichloroethylene	79-01-6	Trichloroethene; TCE
Trichlorofluoromethane	75-69-4	Fluorotrichloromethane, Freon 11
Vinyl chloride	75-01-4	Chloroethene
Xylene (total) [see note 4]	1330-20-7	Dimethylbenzene

<sup>1</sup> Includes the individual Volatile Organic Compounds (VOCs) necessary when a VOC scan is required under ch. NR 507. Acetone, Carbon disulfide, Methyl ethyl ketone, and Tetrahydrofuran are exempted if EPA Method 8021 is used for the analysis.

<sup>2</sup> Common names are those widely used in government regulations, scientific publications and commerce; synonyms exist for many chemicals.

<sup>3</sup> Chemical Abstracts Service registry number.

<sup>4</sup> Xylene (total): This entry includes o-xylene (CAS RN 96-47-6), m-xylene (CAS RN 108-38-3), p-xylene (CAS RN 106-42-3), and unspecified xylenes (dimethylbenzenes) (CAS RN 1330-20-7).

**Note:** Wisconsin DNR GEMS parameter numbers for the substances listed in ch. NR 507 Appendix III can be found at <http://www.dnr.wi.gov/org/aw/wm/monitor/>.