Sara pg 33 units

METHOD 5041

Protocol for Analysis of Sorbent Cartridges from Volatile Organic Sampling Train: Wide-bore Capillary Column Technique

1.0 SCOPE AND APPLICATION

1.1 This method describes the analysis of volatile principal organic hazardous constituents (POHCs) collected from the stack gas effluents of hazardous waste incinerators using the VOST methodology (1). For a comprehensive description of the VOST sampling methodology see Method 0030. The following compounds may be determined by this method:

Analyte	CAS Number
acetone	
acrylonitrile	
benzene	
bromochloromethane	
bromodichloromethane	
4-bromofluorobenzene	
bromoform	
bromomethane	
carbon disulfide	
carbon tetrachloride	
chlorobenzene	
chlorodibromomethane	
chloroethane	
chloroform	
chloromethane	
dibromomethane	
1,1-dichloroethane	
1,2-dichloroethane	
1,1-dichloroethene	
trans-1,2-dichloroethene	
1,2-dichloropropane	
cis-1,3-dichloropropene	
trans-1,3-dichloropropene	
1,4-difluorobenzene	
ethylbenzene	
iodomethane	
methylene chloride	
styrene	
1,1,2,2-tetrachloroethane	
tetrachloroethene	
toluene	

TABLE 2. PRELIMINARY INSTRUMENT DETECTION LIMITS FOR VOLATILE ORGANICS ANALYZED BY THE VOST METHODOLOGY*

Compound	CAS Number	Detection Limit, ng
chloromethane	74-87-3	58
bromomethane	74-83-9	26
vinyl chloride	75-01-4	14
chloroethane	75-00-3	21
methylene chloride	75-09-2	9
acetone	67-64-1	35
carbon disulfide	75-15-0	11
1,1-dichloroethene	75-35-4	14
1,1-dichloroethane	75-35-3	12
trans-1,2-dichloroethene	156-60-5	11
chloroform	67-66-3	11
1,2-dichloroethane	107-06-2	13
1,1,1-trichloroethane	71-55-6	8
carbon tetrachloride	56-23-5	8
bromodichloromethane	75-27-4	11
1,1,2,2-tetrachloroethane	79-34-5	23
1,2-dichloropropane	78-87-5	12
trans-1,3-dichloropropene	10061-02-6	17
trichloroethene	79-01-6	11
dibromochloromethane	124-48-1	21
1,1,2-trichloroethane	79-00-5	26
benzene	71-43-2	26
cis-1,3-dichloropropene	10061-01-5	27
bromoform	75-25-2	26
tetrachloroethene	127-18-4	11
toluene	108-88-3	15
chlorobenzene	108-90-7	15
ethylbenzene	100-41-4	21
styrene	100-42-5	46
trichlorofluoromethane	75-69-4	17
iodomethane	74-88-4	9
acrylonitrile	107-13-1	13

(Continued)