

Chemical Standards: Purgeables Mixes

Product Specification

These standards were developed in response to customer requests for working solutions for US Environmental Protection Agency Method 624. This method is for the analysis of wastewater, using purge and trap for sample introduction. A VOCOL™ column (105m x 0.53mm ID, 1.5µm phase film) completes the separation. Detection is by PID/Hall® detector.

General Description and Testing

The HC Purgeables mixes are clear solutions with a methanol (the principal solvent) odor.

The finished product is quality control tested against an internal standard.

Labeling on these standards complies with requirements for domestic and international distribution. Packaging complies with OSHA, WHMIS, and DOT requirements and meets all domestic

and international requirements for transport, including 49 CFR, UPS Restrictive Guide, IATA, IMO and ICAO. Formulations are 1 mL in volume in amber snap-top ampuls to retard deterioration.

Supplied with each HC Purgeables mix is a certificate of analysis denoting the qualitative and quantitative characteristics of the product. Material safety data sheets are provided automatically with the first purchase of one of these products, and are also available on request.

Refrigerate (Purgeables A and B) or freeze (Purgeables C) these standards on receipt. The ampul should be stored cold for at least 15 minutes before it is opened. When working with these standards, especially HC Purgeables C, keep the container on ice. At room temperature, an open container of Purgeables C deteriorates very rapidly.

Ordering Information:

HC Purgeables mixes are available from inventory, for immediate delivery. Order by referring to the catalog numbers in the Ordering Information table. Additional standards are listed on the reverse side of this product specification.

HC Purgeables Mixes

EPA HC Purgeable A

2000µg/mL in methanol

Carbon tetrachloride	1,1-dichloroethylene
Chlorobenzene	1,2-dichloropropane
2-chloroethylvinyl ether	Methylene chloride
Chloroform	Tetrachloroethylene
Dibromochloromethane	1,1,2-trichloroethane
1,2-dichlorobenzene	Trichloroethylene
1,1-dichloroethane	Trichlorofluoromethane

1 mL

48059

Data Packet

DP48059

EPA HC Purgeable B

2000µg/mL in methanol

Benzene	<i>cis</i> 1,3-dichloropropene
Bromodichloromethane	<i>trans</i> 1,3-dichloropropene
Bromoform	Ethylbenzene
1,3-dichlorobenzene	1,1,2,2-tetrachloroethane
1,4-dichlorobenzene	1,1,1-trichloroethane
1,2-dichloroethane	Toluene
<i>trans</i> 1,2-dichloroethylene	

1 mL

48058

Data Packet

DP48058

EPA HC Purgeable C

2000µg/mL in methanol

Bromomethane	Chloromethane
Chloroethane	Vinyl chloride

1 mL

48057

Data Packet

DP48057

HC Purgeables Kit

1 mL of each of the HC Purgeables mixes.

EPA HC Purgeable A (4-8059)
EPA HC Purgeable B (4-8058)
EPA HC Purgeable C (4-8057)

Kit

47371

Data Packet

DP47371

*Acronyms

CFR — Code of Federal Regulations
DOT — Department of Transportation
IATA — International Air Transport Association
ICAO — International Civil Aviation Organization
IMO — International Maritime Organization
OSHA — Occupational Safety and Health Administration
UPS — United Parcel Service
WHMIS — Workplace Hazardous Materials Information System

Lower Concentration Purgeables

EPA Purgeable A with Dichlorobenzene

200µg/mL each component in methanol.

Carbon tetrachloride	1,1-Dichloroethene	
Chlorobenzene	1,2-Dichloropropane	
2-Chloroethylvinyl ether	Methylene chloride	
Chloroform	Tetrachloroethene	
Dibromochloromethane	1,1,2-Trichloroethane	
1,2-Dichlorobenzene	Trichloroethylene	
1,1-Dichloroethane	Trichlorofluoromethane	
1 mL		47969
Data Packet		DP47969
10 x 1 mL		47372
Data Packet		DP47372

EPA Purgeable A

200µg/mL each component in methanol.

Carbon tetrachloride	1,2-Dichloropropane	
Chlorobenzene	Methylene chloride	
2-Chloroethylvinyl ether	Tetrachloroethene	
Chloroform	1,1,2-Trichloroethane	
Dibromochloromethane	Trichloroethene	
1,1-Dichloroethane	Trichlorofluoromethane	
1,1-Dichloroethene		
1 mL		48851
Data Packet		DP48851
1 mL		458851
Data Packet		DP458851

EPA Purgeable B with Dichlorobenzene

200µg/mL each component in methanol.

Benzene	<i>cis</i> -1,3-Dichloropropene	
Bromodichloromethane	<i>trans</i> -1,3-Dichloropropene	
Bromoform	Ethylbenzene	
1,3-Dichlorobenzene	1,1,2,2-Tetrachloroethane	
1,4-Dichlorobenzene	1,1,1-Trichloroethane	
1,2-Dichloroethane	Toluene	
<i>trans</i> 1,2-Dichloroethene		
1 mL		47970-U
Data Packet		DP47970
10 x 1 mL		47373
Data Packet		DP47373

EPA Purgeable B

200µg/mL each component in methanol.

Benzene	<i>trans</i> -1,3-Dichloropropene [■]	
Bromodichloromethane	Ethylbenzene	
Bromoform	1,1,2,2-Tetrachloroethane	
1,2-Dichloroethane	Toluene	
<i>trans</i> -1,2-Dichloroethene	1,1,1-Trichloroethane	
<i>cis</i> -1,3-Dichloropropene [■]		
1 mL		48852-U
Data Packet		DP48852
1 mL		458852
Data Packet		DP458852

EPA Purgeable C

200µg/mL each component in methanol.

Bromomethane	Chloromethane	
Chloroethane	Vinyl chloride	
1 mL		48853
Data Packet		DP48853
1 mL		458853
Data Packet		DP458853
10 x 1 mL		47374
Data Packet		DP47374

2S! - Identical formulations from two separate sources are available. Refer to the Supelco catalog for more information.

■ *cis*- and *trans*-1,3-dichloropropene are available from only one raw material source.

Contact our Technical Service Department
(phone 800-359-3041 or 814-359-3041, FAX 814-359-5468)
for expert answers to your questions.

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