

Product Information

Chemical Standards: Purgeables Mixes

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 (105 m x 0.53 mm I.D., 1.5 µm 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

2000 µg/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

EPA HC Purgeable B

2000 µg/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

EPA HC Purgeable C

2000 µg/mL in methanol

| | |
|--------------|----------------|
| Bromomethane | Chloromethane |
| Chloroethane | Vinyl chloride |

1 mL

48057-U

HC Purgeables Kit

1 mL of each of the HC Purgeables mixes.

- EPA HC Purgeable A (48059)
- EPA HC Purgeable B (48058)
- EPA HC Purgeable C (48057)

Kit

47371

*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

200 µg/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

EPA Purgeable A



200 µg/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-U

1 mL

458851

SS - 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.

EPA Purgeable B with Dichlorobenzene

200 µg/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

EPA Purgeable B



200 µg/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

1 mL

458852

EPA Purgeable C



200 µg/mL each component in methanol.

| | |
|--------------|----------------|
| Bromomethane | Chloromethane |
| Chloroethane | Vinyl chloride |

1 mL

48853

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Hall — Tracor Instruments, Austin, Inc.

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