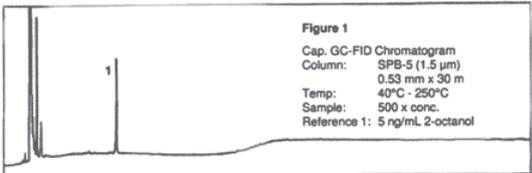
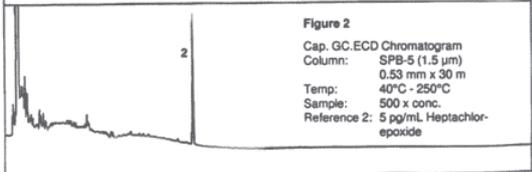


Analytical Methodology	<p>American Chemical Society (ACS) grades of high purity solvents are specified for use in most methods including the 500, 600 and 8000 series and for CLP analysis. Specifications and analytical procedures used to verify the purity of ULTRA RESI-ANALYZED Acetone are based on ACS guidelines recently published in the 9th edition of Specifications for ACS Reagent Chemicals (2000). In addition, ULTRA RESI-ANALYZED solvents are performance tested to provide purity levels below the lower limits of quantitation (LLQ) for trace analyte detection by standard EPA methods. Extensive QC analysis by flame ionization detection (FID) and electron capture detection (ECD) assures optimal performance in critical GC analysis. The sample-concentration/temperature programmed GC test (Figures 1 and 2) are intended to verify the absence of possible background interference in applications where trace determinations in the ng/mL (FID) and/or pg/mL (ECD) levels are required. Appropriate reference standards and windows of detection are set to insure optimal performance characteristics under each set of chromatographic conditions. · Single GC-ECD sensitive impurities are limited to less than 10 pg/mL (heptachlor epoxide standard). · Single GC-FID detectable impurities are limited to less than 5 ng/mL (2-octanol standard).</p> <div style="border: 1px solid black; padding: 5px;"> <p>Figure 1 Cap. GC-FID Chromatogram Column: SPB-5 (1.5 µm) 0.53 mm x 30 m Temp: 40°C - 250°C Sample: 500 x conc. Reference 1: 5 ng/mL 2-octanol</p>  </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Figure 2 Cap. GC-ECD Chromatogram Column: SPB-5 (1.5 µm) 0.53 mm x 30 m Temp: 40°C - 250°C Sample: 500 x conc. Reference 2: 5 pg/mL Heptachlor-epoxide</p>  </div>																														
Helpful Hints	<p>Acetone is a reactive ketone and will quickly undergo self condensation in the presence of acid or base. Contact with acid or base should be avoided to prevent the formation of these undesired self condensation products. In addition, if further drying of the solvent is required, 4 A sieve or anhydrous CaSO₄ is recommended. Silica gel or alumina is not recommended since they catalyze self condensation and increase the water content. Since the self condensation reaction occurs slowly over time, ULTRA RESI-ANALYZED Acetone has a 15 month expiration from the date of purification. We recommend that you purchase material in quantities that are intended for immediate use. Avoid contact of the solvent or vapor with Teflon tape or parafilm; these materials contain phthalate esters which will contaminate the solvent. Never transfer the solvent to another container unless the container has been carefully cleaned.</p>																														
Specifications	<table border="0"> <tr> <td colspan="3">Trace Organic Residues:</td> </tr> <tr> <td>FID-Sensitive Impurities (as 2-Octanol)¹ Single Impurity Peak (ng/mL)</td> <td></td> <td>5 ppb max.</td> </tr> <tr> <td>ECD-Sensitive Impurities (as Heptachlor Epoxide)² Single Impurity Peak (pg/mL)</td> <td></td> <td>10 ppt max.</td> </tr> <tr> <td>Assay ((CH₃)₂CO)(by GC, corrected for water)</td> <td></td> <td>99.4% min.</td> </tr> <tr> <td>Color (APHA)</td> <td></td> <td>10 max.</td> </tr> <tr> <td>Residue after Evaporation</td> <td></td> <td>1 ppm max.</td> </tr> <tr> <td>Substances Reducing Permanganate</td> <td></td> <td>Passes Test</td> </tr> <tr> <td>Water (H₂O)(by Karl Fischer titrn)</td> <td></td> <td>0.5% max.</td> </tr> <tr> <td colspan="3">1 By Temperature Programmed Capillary GC-FID from 40° to 250°C 500-fold concentration.</td> </tr> <tr> <td colspan="3">2 By Temperature Programmed Capillary GC-ECD from 40° to 250°C 500-fold concentration.</td> </tr> </table>	Trace Organic Residues:			FID-Sensitive Impurities (as 2-Octanol) ¹ Single Impurity Peak (ng/mL)		5 ppb max.	ECD-Sensitive Impurities (as Heptachlor Epoxide) ² Single Impurity Peak (pg/mL)		10 ppt max.	Assay ((CH ₃) ₂ CO)(by GC, corrected for water)		99.4% min.	Color (APHA)		10 max.	Residue after Evaporation		1 ppm max.	Substances Reducing Permanganate		Passes Test	Water (H ₂ O)(by Karl Fischer titrn)		0.5% max.	1 By Temperature Programmed Capillary GC-FID from 40° to 250°C 500-fold concentration.			2 By Temperature Programmed Capillary GC-ECD from 40° to 250°C 500-fold concentration.		
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Ordering Information

Product No.	Size
9254-02	6x1L
9254-03	4x4L



Phillipsburg, NJ 9001:2008 & 14001:2004
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, Holland 9001:2008 & 14001:2004
Selangor, Malaysia 9001:2008

About Avantor™ Performance Materials

Avantor Performance Materials manufactures and markets high-performance chemistries and materials around the world under several respected brand names, including the J.T.Baker®, Macron™, Rankem™, Diagnova™, and POCH™ brands.

Avantor products are used in a wide range of industries. Our biomedical and life science solutions are used in academic, industry and quality control laboratories for research, pharmaceutical production and medical lab testing, while our electronics solutions are used in the manufacturing of semiconductors, photovoltaic cells and flat panel displays. Based in Center Valley, Pennsylvania (USA), Avantor is owned by an affiliate of New Mountain Capital, LLC.



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Our Web site features ASK Avantor™ which includes live chat capabilities with customer service representatives.

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