

Europe • Middle East • Africa







Lab-Optimized Performance: Enhance the separation and reproducibility, maximize the sensitivity and detecting power of your instrumentation At Avantor[™] Performance Materials, uncompromising performance comes from two proven brands:



J.T.Baker[®] brand chemicals application-optimized and function-tested to maximize instrument performance



Macron Fine Chemicals[™] brand products providing value through consistent and reliable results for customers around the world. Avantor high purity solvents and reagents give you the performance you need - minimizing the risk of contaminants that can limit accuracy while maximizing instrument sensitivity and detection power in key applications:

UHPLC and LC/MS analysis —where our ULTRA LC/MS products are ideal for cutting-edge applications such as proteomics, pharmacokinetics, clinical research and drug discovery while our LC/MS products are function-tested and optimized for minimal impurities and interference-free baselines, giving you performance you can trust.

HPLC analysis — where we offer our pure HPLC products you can trust to improve your processes, obtain high selectivity, reproducibility and accuracy of results.

GC analysis —where our products are fully characterized and lot controlled by ECD, FID, or other method-specific detectors to deliver the highest level of purity and lot-to-lot consistency. Low UV absorbance, residue after evaporation and low water levels will create a flat base line and extend column life in demanding gas chromatography analysis.

Spectrometry—our solvents are manufactured to minimize lot-to-lot variability and contaminants that can interfere with UV, and in some cases IR, spectra, including residue after evaporation, and acid and base concentrations.



Avantor High Purity Solvents – Grade Recommendation

| Application | J.T.Baker® BAKER ANALYZED™ HPLC Reagents | J.T.Baker® BAKER ANALYZED™ LC/MS Reagents | J.T.Baker® BAKER ANALYZED ULTRA LC/MS™ Reagents | J.T.Baker® ULTRA RESI- ANALYZED™ Reagents | J.T.Baker® BAKER ANALYZED™ Pesticide Reagents | Macron™ Fine Chemicals ChromAR™ Solvents |
|---------------------------|---|--|--|--|--|---|
| HPLC - Conventional | +++ | | | | | +++ |
| HPLC - QC/QA | +++ | + | | | | ++ |
| Gas Chromatography (GC) | | | | +++ | +++ | |
| HPLC -Research | +++ | ++ | +++ | | | + |
| LC/MS - QC/QA | ++ | +++ | | | | |
| LC/MS - Research | | +++ | ++ | | | |
| LC/MS - Critical Research | + | ++ | +++ | | | |
| UHPLC - QC/QA | +++ | + | + | | | |
| UHPLC - General Research | +++ | + | +++ | | | |
| UHPLC - Critical Research | | | +++ | | | |

+ Suitable

++ Preferred

+++ Ideal

General- traditional applications where quality is important, primarily assay and UV

Conventional – does not require extensive characterization of trace metals. Filtration at 0.2 um is sufficient. Assay, UV and RAE (Residue after evaporation) are important specifications. Common in open access/high volume laboratories, initial investigations and compound management

Critical – requires solvents to have characterization of trace metals, precise function testing and 0.1 um filtration for UHPLC applications Examples of critical research are work in proteomics, small molecule drug discovery and bioanalysis.



| Testing Parameters* | J.T.Baker® BAKER ANALYZED™ HPLC Reagents | J.T.Baker® BAKER ANALYZED™ LC/MS Reagents | J.T.Baker® BAKER ANALYZED ULTRA LC/MS™ Reagents | J.T.Baker® ULTRA RESI- ANALYZED™ Reagents | J.T.Baker® BAKER ANALYZED™ Pesticide Reagents | Macron™ Fine Chemicals ChromAR™ Solvents |
|--------------------------------------|---|--|--|--|--|---|
| Color (APHA) | | Х | Х | | | |
| ECD and/or FID Sensitive Impurities | | | | Х | x | |
| For Organic Residue Analysis | | | | Х | x | |
| ESI- Positive mode | | Х | Х | | | |
| ESI- Negative mode | | | Х | | | |
| Filtered through a 0.1 micron filter | | | Х | | | |
| Fluorescence Trace Impurities | Х | Х | Х | | | |
| Gradient Test | Х | Х | Х | | | х |
| Residue after Evaporation | Х | Х | Х | Х | x | Х |
| Substances Reducing Permanganate | | | | Х | | |
| Trace Metal Impurities (ppb) | | Х | Х | | | |

Avantor High Purity Solvents – Testing Parameters

* NOTE: The testing parameters are typical for the grades listed in the table.

For actual testing parameters, please refer to the product specification sheet.



UHPLC and LC/MS Analysis

The rapid growth of LC/UV and LC/MS and the development of Ultra High-Pressure Liquid Chromatography (UHPLC) technology has created a need for suitable solvents for use in these applications. We have applied our many years of experience in purification, distillation, and blending to develop a line of high purity J.T.Baker[®] brand solvents and blends to ensure optimal instrument performance.

The J.T.Baker[®] ULTRA LC/MS[™] product line was developed for the most demanding UHPLC and mass spectrometry (MS) applications, such as proteomics, drug discovery, pharmacokinetics, and clinical research. ULTRA LC/MS[™] solvents are designed to extend the useful life of UHPLC columns by significantly reducing particles and minimizing the occurrence of erroneous peaks caused by the formation of metal adducts or the presence of organic impurities, such as phthalates or polyethylene glycol.





ULTRA LC/MS[™] products undergo advanced suitability testing with both electrospray positive and negative modes to strengthen detection of extraneous organic impurities. The result is minimal baseline noise, reduced ion suppression, and improved sensitivity to both small and large molecule detection. Solvents are packaged in borosilicate bottles to minimize leaching of trace metal impurities over time, which reduces metal adduct formation, improves analyte identification and ensures reliable, consistent, and reproducible results.

For more routine applications, our LC/MS solvents and blends are function-tested and optimized for minimal impurities and interference-free baselines, giving you performance you can trust in the mobile phase -- every time.

J.T.Baker® LC/MS solvents and blends are optimized to provide low particulates, polyethylene glycol, phthalates and amides, and extremely low levels of metal ions and non-volatile residue. Products are function tested for LC/ MS suitability, ESI+, UV-Vis absorbance, trace metals, residue after evaporation, and assay. Interference-free baselines ensure users can have the highest confidence in solvent performance in their applications.

Selection guide: Application and MS Analyzer ULTRA LC/MS[™] and LC/MS Solvents

| Industry/Application | LC/MS | ULTRA LC/MS™ Solvents |
|--|-------|--------------------------|
| Drug discovery | | х |
| Drug identification | х | x |
| Drug formulation | x | x |
| Biotechnology | x | |
| Food | x | |
| High end research labs | | x |
| University research | x | x |
| QC testing labs | х | х |
| Mass Spectrometry Analyzer | LC/MS | ULTRA LC/MS™ Solvents |
| Single Quadrupole | х | |
| Tandem Quadrupole | х | х |
| lon Trap | | х |
| MALDI-TOF | | х |
| MS-MS Hybrids (Quadrupole Time-of-Flight) | | x |
| FT-ICR (Fourier transform ion cyclotron resonance mass spectrometer) | | x |

J.T.Baker® ULTRA LC/MS™ Products

| Description | Product Number* |
|--|--------------------|
| Acetonitrile, Schott® DURAN® Borosilicate glass bottle | 9853 |
| Methanol , Schott® DURAN® Borosilicate glass bottle | 9863 |
| Water, Schott® DURAN® Borosilicate glass bottle | 9823 |

Schott[®] is a registered trademark of Schott DURAN[®] is a registered trademark of DURAN GROUP GmbH



J.T.Baker[®] LC/MS Products

| Description | Product Number |
|--|-------------------|
| LC/MS Solvents | |
| Acetonitrile | 9821 |
| Methanol | 9822 |
| Water | 9825 |
| 2-Propanol | 9827 |
| Ethyl Acetate | 9828 |
| LC/MS Blends | |
| 0.1% Formic Acid in Acetonitrile | 9824 |
| 0.1% Formic Acid in Water | 9826 |
| 0.1% Trifluoroacetic Acid in Acetonitrile | 9837 |
| 0.1% Trifluoroacetic Acid in Water | 9838 |
| 0.1% Formic Acid in Acetonitrile | 9824 |
| 0.1% Formic Acid in Water | 9826 |
| LC/MS Acids | |
| Formic Acid -10 x 1ml ampoules and 2 x 1ml ampoules | 9820 |
| Trifluoroacetic acid – 4l; 1l; 70ml; 10 x 1ml ampoules and 2 x 1ml ampoules | 9810 |



High Performance Liquid Chromatography (HPLC) Analysis

Liquid chromatography (LC) is the most widely used chromatographic technique being done in most laboratories in operation today. The reasons are many—ease of use, speed, separation reproducibility, and accuracy of results. LC is also generally non-destructive to the sample components, allowing them to be recaptured as they come off the instrument. For optimum HPLC performance, you need the right solvents and reagents. Whatever your analytical application, Avantor offers the products you need to be successful.

J.T.Baker® HPLC products are designed to provide rapid, reproducible performance and separation in research and quality control applications. For critical HPLC applications, J.T.Baker® solvents and modifiers remain the preferred choice for chemists throughout the world enabling optimum instrument performance and sensitivity.

J.T.Baker® HPLC solvents are manufactured using multistep purification processes that produce reliable, low backgrounds free of extraneous peaks. Products are function tested for assay, water, residue after evaporation, and UV absorbance and fluorescence in critical ranges.

Selected J.T.Baker[®] HPLC acids, bases and ion pair reagents enhance the usefulness of HPLC as an analytical technique. Products are controlled for solubility in aqueous and organic solutions, UV transparency for optimum sensitivity and metallic impurities which can affect biological activity.

Macron Fine Chemicals[™] ChromAR[™] solvents are ideal for use in analytical testing in a wide variety of markets, like industrial, chemical, pharmaceutical, and agricultural, where consistency and reliability are required. These reagents are produced under strict manufacturing practices providing consistent gradient profiles for reproducible results. You can perform a variety of liquid chromatography as well as spectrometry applications, with confidence in the quality of your test results.

J.T.Baker® HPLC Acids, Salts and Ion-Pair Reagents

| Description | Product Number |
|--|-------------------|
| Acids | |
| Trifluoroacetic Acid | 9470 |
| Acetic Acid, Glacial | 9515 |
| Salts | |
| Ammonium Acetate | 0599 |
| Ammonium Dihydrogen Phosphate | 0777 |
| Sodium Acetate Trihydrate | 0393 |
| Ion-Pair Reagents | |
| 1-Heptanesulfonic Acid Sodium Salt | 2173 |
| 1-Hexanesulfonic Acid Sodium Salt | 2175 |
| 1-Octanesulfonic Acid Sodium Salt | 2818 |
| 1-Pentanesulfonic Acid Sodium Salt Monohydrate | 2841 |
| Tetrabutylammonium Hydrogen Sulfate (98%) | V360 |
| Tetrabutylammonium Hydroxide, Titrant (0.4M in H ₂ O) | V365 |
| Tetrabutylammonium Hydroxide in Water | 9580 |
| Tetrabutylammonium Phosphate | V375 |

J.T.Baker® BAKER ANALYZED™ HPLC Solvents

| Description | Product Number |
|--------------------------------------|-------------------|
| Acetone | 8142 |
| Acetone, Low Water | 9003 |
| Acetonitrile | 8257 |
| Acetonitrile, Far UV Gradient Grade | 9012 |
| Acetonitrile, Ultra Gradient Grade | 9017 |
| Chloroform (Hydrocarbon Stabilized) | 9174 |
| Chloroform (Stabilized Ethanol) | 9175 |
| Cyclohexane | 9292 |
| o-Dichlorobenzene | 9233 |
| Dichloromethane (Stabilized Amylene) | 9410 |
| Ether, Anhydrous | 9237 |
| Ethyl Acetate | 9282 |
| n-Heptane | 9177 |
| Hexanes (95% n-Hexane) | 9304 |
| Isobutyl Alcohol | 9048 |
| Methanol | 8404 |
| Methanol, Ultra Gradient Grade | 8402 |
| Methyl tert-Butyl Ether | 9042 |
| Methyl Ethyl Ketone | 9214 |
| Pentane | 9331 |
| 2-Propanol | 9095 |
| Pyridine, Low Water | 9393 |
| Tetrahydrofuran | 9441 |
| Tetrahydrofuran (Stabilized) | 9440 |
| Tetrahydrofuran, Low Water | 9439 |
| 1,2,4-Trichlorobenzene | 9444 |
| 2,2,4-Trimethylpentane | 9480 |
| Water | 4218 |



Macron Fine Chemicals[™]ChromAR[™] Solvents

| DescriptionNumber1,2-Dichloroethane67261,4-Dioxane67531-Butanol67241-Chlorobutane67252,2,4-Trimethylpentane60432-Butanon6206Acetone2435Acetonitrile2856Acetonitrile2856Acetonitrile6711Chloroform (Stabilized Amylene)6724Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | | |
|--|--------------------------------------|-------------------|
| 1,4-Dioxane67531-Butanol67241-Chlorobutane67252,2,4-Trimethylpentane60432-Butanon6206Acetone2435Acetonitrile2856Acetonitrile2856Acetonitrile6711Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | Description | Product Number |
| 1-Butanol67241-Chlorobutane67252,2,4-Trimethylpentane60432-Butanon6206Acetone2435Acetonitrile2856Acetonitrile2856Acetonitrile6711Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized BHT)6727Diethyl Ether (Stabilized BHT)6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | 1,2-Dichloroethane | 6726 |
| 1-Chlorobutane67252,2,4-Trimethylpentane60432-Butanon6206Acetone2435Acetonitrile2856Acetonitrile2856Acetonitrile6711Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | 1,4-Dioxane | 6753 |
| 2,2,4-Trimethylpentane60432-Butanon6206Acetone2435Acetonitrile2856Acetonitrile2856Acetonitrile6711Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized BHT)6727Diethyl Ether (Stabilized BHT)6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | 1-Butanol | 6724 |
| 2-Butanon6206Acetone2435Acetonitrile2856Acetonitrile2856Acetonitrile6711Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | 1-Chlorobutane | 6725 |
| Acetone2435Acetonitrile2856Acetonitrile2856Acetonitrile2856Acetonitrile6711Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | 2,2,4-Trimethylpentane | 6043 |
| Acetonitrile2856Acetonitrile2856Acetonitrile6711Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | 2-Butanon | 6206 |
| Acetonitrile2856Acetonitrile2856Acetonitrile6711Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | Acetone | 2435 |
| Acetonitrile6711Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | Acetonitrile | 2856 |
| Chloroform (Stabilized Amylene)4443Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | Acetonitrile | 2856 |
| Chloroform (Stabilized Ethanol)6754Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | Acetonitrile | 6711 |
| Cyclohexane6720Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | Chloroform (Stabilized Amylene) | 4443 |
| Dichloromethane (Stabilized Amylene)6714Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | Chloroform (Stabilized Ethanol) | 6754 |
| Diethyl Ether (Stabilized BHT)6727Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | Cyclohexane | 6720 |
| Diethylamine6728Dimethyl Sulfoxide2969Ether (Stabilized Ethanol)2854Ethyl AcetateH078 | Dichloromethane (Stabilized Amylene) | 6714 |
| Dimethyl Sulfoxide 2969 Ether (Stabilized Ethanol) 2854 Ethyl Acetate H078 | Diethyl Ether (Stabilized BHT) | 6727 |
| Ether (Stabilized Ethanol) 2854 Ethyl Acetate H078 | Diethylamine | 6728 |
| Ethyl Acetate H078 | Dimethyl Sulfoxide | 2969 |
| | Ether (Stabilized Ethanol) | 2854 |
| | Ethyl Acetate | H078 |
| Heptane fraction 6751 | Heptane fraction | 6751 |
| Isopropyl Alcohol (2-Propanol) 3043 | Isopropyl Alcohol (2-Propanol) | 3043 |
| Methyl Alcohol, Anhydrous (Methanol) 3041 | Methyl Alcohol, Anhydrous (Methanol) | 3041 |
| Methyl Alcohol, Anhydrous (Methanol) 6712 | Methyl Alcohol, Anhydrous (Methanol) | 6712 |
| N, N - Dimethylformamide 5362 | N, N - Dimethylformamide | 5362 |
| n-Butyl Acetate 6723 | n-Butyl Acetate | 6723 |
| n-Heptane, 95% 6750 | n-Heptane, 95% | 6750 |
| n-Heptane, 99% 5410 | n-Heptane, 99% | 5410 |



| Description | Product Number |
|-------------------------------|-------------------|
| n-Heptane, 99.5% | 5139 |
| n-Hexane, 95% | 6752 |
| n-Hexane, 99% | 6713 |
| NMP (N-Methyl-2-pyrrlidinone) | 6392 |
| n-Pentane, 95% | 6755 |
| n-Pentane, 99% | 6721 |
| Petroleum Ether, 40-60 | 6756 |
| Petroleum Ether, 60-80 | 6757 |
| Propyl Alcohol (1-Propanol) | 5351 |
| Pyridine | 6730 |
| Tert-Butyl Methyl Ether | 5398 |
| Tetrachloroethylene | 6759 |
| Tetrahydrofuran | 2858 |
| Toluene | 4483 |
| Water | 6795 |

Gas Chromatography

The rigorous demands of EPA extraction/concentration protocols inspired the development of J.T.Baker® brand solvents for GC analysis. J.T.Baker® solvents are designed, manufactured and tested to provide the best performance for any GC application. Avantor solvents are tested and controlled for optimum purity and lot-to-lot consistency for reproducible results at an economical price.

J.T.Baker[®] ULTRA RESI-ANALYZED[™] solvents start with the purest raw materials available. They pass through a combination of chemical and non-chemical purification technologies that remove reactive solvent impurities and produce higher assays and narrow solvent fronts, then are packaged to maintain purity. Inert gas blanketing throughout the manufacturing and packaging process, along with our unique stabilizer system, provides unmatched product stability and interference-free results. Products are then function-tested on high resolution capillary GC and proven suitable to the ppt/ppb level on both ECD and FID detectors. Products are tested to meet EPA requirements for extraction/ concentration procedures and AOAC requirements for pesticide residue analysis. They are also performance-tested to purity levels below the Lower Level of Quantitation (LLQ) for trace analyte detection by standard EPA methods.

J.T.Baker[®] BAKER ANALYZED[™] Pesticide Reagent solvents are specially developed for use in evaluation of pesticide (and insecticide) residues in food, feed, water or soil samples as suitable for all analysis of common pesticides such as 2-chlorobiphenyl, Heptachlor, Aldrin, Parathion, Dieldrin, Endrin, DDT, Dioxine etc.

They are specified to the required low residue levels (5 ppm) for use in research and quality control laboratories.

J.T.BAKER[®] ANALYZED ULTRA-RESI[™] Solvents and Reagents

| Description | Product Number |
|----------------------------------|-------------------|
| Solvents | |
| Acetone | 9254 |
| Acetonitrile | 9255 |
| Carbon Disulfide | E350 |
| Chloroform (Stabilized Ethanol) | 9257 |
| Cyclohexane | 9258 |
| Dichloromethane (Stabilized) | 9264 |
| Diethylether (EPA Method 8151A) | 9259 |
| Ethyl Acetate | 9260 |
| N-Heptane | 9338 |
| Hexane (95% n-Hexane) | 9262 |
| Hexane (99 % n-Hexane) | N168 |
| lso-Hexane | 9267 |
| Methanol (Purge & Trap) | 9077 |
| Methanol | 9263 |
| Methyl tert-Butyl Ether | 9043 |
| N-Pentane | 9333 |
| Petroleum Ether 30°-60°C | 9265 |
| 2-Propanol | 9334 |
| Tetrachloroethylene (Stabilized) | 9360 |
| Toluene | 9336 |
| 2,2,4-Trimethylpentane | 9335 |
| Water | 4219 |
| Salts | |
| Sodium Sulfate Anhydrous | 3375 |



J.T.Baker® BAKER ANALYZED™ Pesticide Reagents

| Description | Product Number |
|--------------------------------------|-------------------|
| 2,2,4-Trimethylpentane | 8469 |
| 2-Propanol | 8468 |
| Acetone | 5276 |
| Acetonitrile | 5283 |
| Chloroform (Stabilized Ethanol) | 5285 |
| Cyclohexane | 5278 |
| Dichloromethane (Stabilized Amylene) | 5275 |
| Diethyl Ether (Stabilized Ethanol) | 8467 |
| Ethyl Acetate | 5277 |
| Heptane, 95% | 8472 |
| Methanol | 5279 |
| n-Hexane (95% n-Hexane) | 5274 |
| n-Hexane, 99% | 8473 |
| n-Pentane | 5281 |
| Petroleum Ether 40°-60° C | 5280 |
| Toluene | 8470 |

J.T.Baker® BAKER ANALYZEDTM GC-HS Reagents have been developed for more sensitive GC-headspace analysis of volatile organic impurities. Each solvent is tested to ensure optimal performance with purity and extremely low or levels of residual solvent impurities - certificates of analysis include exact marked impurities.

The Purge and Trap process separates and concentrates volatile sample components in a sorbent trap, which is then heated rapidly to desorb the volatile components onto the GC instrument. J.T.Baker® ULTRA RESI-ANALYZED Methanol (Product Number 9077) was designed specifically for use in Purge and Trap analysis applications. In addition to the usual specifications for GC application, this product is tested for volatile organic traces that could interfere with the purge and trap analysis.

J.T.Baker® BAKER ANALYZED™ GC - HS Reagents

| Description | Product Number |
|---------------------------|-------------------|
| DMF-N,N-dimethylformamide | 9753 |
| DMSO-dimethyl sulfoxide | 9754 |
| DMA-N,N-dimethylacetamide | 9755 |

UV/Visible/IR Spectrometry

The principle of spectrometry is fairly straightforward—that the identification and concentration of a species in solution can be determined by measuring the transmittance or absorbance of radiation passed through the solution. It's a simple concept, but to make it work you need a solvent that doesn't interfere with the measurement at the specific wavelength being measured.

J.T.Baker® PHOTREX[™] solvents are recommended for use in UV, visible, and IR spectrometry applications. They are manufactured to minimize lot-to-lot variability and contaminants that can interfere with UV, and in some cases IR, spectra, including residue after evaporation, and acid and base concentrations. Function testing confirms maximum absorbance in selected wavelengths, and for PHOTREX[™] solvents, 50% to 100% transmittance windows in IR wavelengths are reported.

J.T.Baker[®] Spectrometry Solvents

| Description | Product Number |
|--------------------------------------|-------------------|
| Alcohol, Anhydrous, Reagent | 8029 |
| 1-Butanol | 9189 |
| Chloroform (Stabilized Ethanol) | 7071 |
| Cyclohexane | 8706 |
| 1,2-Dichloroethane | 9302 |
| 1,4-Dioxane | 9196 |
| Dichloromethane (Stabilized Amylene) | 7305 |
| Dimethyl Sulfoxide | 7093 |
| Ethanol, Absolute | 8029 |
| Hexane(99% N-Hexane) | 8205 |
| Methanol, Absolute | 8046 |
| Paraffin Oil | 9388 |
| Petroleum Ether, 35–60 °C | 9270 |
| 2-Propanol | 8235 |
| Toluene | 9456 |
| 2,2,4-Trimethylpentane | 8715 |
| Xylenes | 9516 |

Also available from Avantor Performance Materials: J.T.Baker[®] brand product portfolio

Solid-phase extraction – J.T.Baker® silica- and polymer-based BAKERBOND™ spe columns and high performance BAKERBOND Speedisk[™] columns and disks improve and simplify sample clean-up and concentration

Dissolution Testing Media – J.T.Baker[®] dissolution media concentrates are produced in accordance to USP guidelines and containers are filled to +/- 0.5% of target fill volumes to ensure consistent, reproducible results every time. Reduce average prep time by more than 75%. Just add purified water and begin testing

Trace metal analysis reagents – full range of products to prepare your samples with the utmost consistency, highest purity and stability, offered in three different grades — ppt, ppb or ppm trace metal acids

Biosolvents — sophisticated reagents proven to expand process control, reduce variables, maximize coupling efficiencies and boost yields

Bioreagents — high purity reagents tested for use in biotechnology applications, such as electrophoresis, and liquid chromatography

General reagents – J.T.Baker® BAKER ANALYZED[™] ACS solvents, acids, salts, solutions provide very high characterization and purity. For standard reagent grades of chemicals, Macron Fine Chemicals™ AR[™] grade chemicals are designed to provide the best value for the price



hillipsburg, NJ 9001:2008 & 14001:2004 Paris, KY 9001:2008 Mexico City, Mexico 9001:2008 Deventer, the Netherlands 9001:2008, 14001:2004 & 13485:2003 Mumbai, India 9001:2008 & 17025:2005

Gliwice, Poland 9001:2008 & 17025:2005 Selangor, Malavsia 9001:2008 Debradun, India 9001:2008, 14001:2004 & 13485:2003

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 Fine Chemicals[™]. Rankem[™], BeneSphera[™] and POCH[™] brands.

Avantor products are used in a wide range of industries. Our biomedical and life science solutions are used in pharmaceutical production, laboratory research for academic, industry and quality control, and in medical lab testing. Our electronics materials products are used in the manufacturing of semiconductors.

For additional information please visit www.avantormaterials.com or follow www.twitter.com/avantor_news

Ordering Information and Assistance

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ASK Avantor™ Our Web site features ASK Avantor.™ which includes live chat capabilities with customer service representatives. www.avantormaterials.com/askavantor

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