ProductLine*Overview*

J.T.Baker® brand High Purity Solvents and Reagents – Products for DNA/RNA and peptide synthesis

For synthesis of biomolecules, there is no better choice than J.T.Baker BIO-ANALYZED solvents. Specifically engineered, manufactured, and tested to maximize coupling efficiencies and deliver the highest yields in this critical application.

Application Optimized

- Dried to produce the lowest water levels in the industry
- Packaged in closed systems and blanketed with inert gas to maintain the quality and low water content right up to point-of-use
- Purified and distilled to control amine, acid, base, and residue after evaporation levels, which typically limit yields and coupling efficiencies

Function Tested

- Extensive testing for important contaminants ensures optimum performance and consistency
- Additional testing for impurities, such as peroxides, is performed on specific solvents when their presence in elevated levels impact synthesis yields

Products for Biotechnology applications – BAKER BIO-ANALYZED REAGENTS

Description	Specification	Product Number
Acetonitrile	Water ≤ 30 ppm	8144
Acetonitrile, Low Water	Water ≤ 10 ppm	9018; 8134
Acetonitrile, Ultra Low Water	Water ≤ 5 ppm	9019
Dichloromethane	Water ≤ 30 ppm Acidity ≤ 0.0001 meq/g	9316
Dichloromethane	Water ≤ 100 ppm Acidity ≤ 0.0003 meq/g	9348
Dimethylformamide (DMF)	Amines ≤ 5 ppm, Water ≤ 400ppm	9344
Dimethyl Sulfoxide (DMSO)	Water ≤ 250 ppm	9234
Ethyl acetate	Water ≤ 300 ppm	9276
Methanol	Water ≤ 50 ppm	9098
1-Methyl-2-pyrrolidone (NMP)	Amines ≤ 0.01% Water ≤ 200 ppm	9261
Pyridine, Low Water	Water ≤ 100 ppm	9393
Tetrahydrofuran, Low Water, (contains no preservative)	Water ≤ 50 ppm Peroxide ≤ 10 ppm	9439
Triethylamine	Water ≤ 0.10%	9111

Products for Biotechnology applications – BAKER ANALYZED REAGENTS

Description	Specification	Product Number
ACTIVATOR ETT	Water ≤ 50 ppm Molarity (5-Ethylthio-1 H-Tetrazole) 0.28-0.32	9481
ACTIVATOR DCI	Water ≤ 30 ppm Molarity (Dicyano-imidazole) 0.24-0.26	9482
CAPPING A	Pyridine 9.0-11.0% (v/v) Acetic anhydride 9.0-11.0% (v/v)	9497
CAPPING A	Acetic anhydride 8.2-10.0% (v/v)	9510
CAPPING B	1-Methylimidazole 15.2-16.8% (v/v)	9485
CAPPING B	1-Methylimidazole 9.5-10.5% (v/v) Pyridine 9.5-10.5% (v/v)	9512
DEBLOCK TCA-DCM	Water ≤ 150 ppm	9448
DEBLOCK TCA-DCE	Water ≤ 100 ppm	9449
DEBLOCK-TCA	Water ≤ 150 ppm	9451
DEBLOCK-DCA	Water ≤ 150 ppm	9518
OXIDIZING	Pyridine 18.5-21.0% (v/v)	9488

Most solvents are available in the CYCLE-TAINER solvent delivery system. For additional anhydrous solvents with low water levels, see the BakerDRY anhydrous solvent line

Anhydrous Solvents for Organic Synthesis or other Applications

BakerDRY low water solvents eliminate the hazardous, costly and time-consuming purification operations needed to prepare solvents for synthesis applications. Specifically manufactured for use in water-sensitive synthesis, most Baker solvents contain no preservative, maintain less than 10 ppm peroxides and deliver low levels of water and dissolved oxygen, while meeting ACS specifications for reagent chemicals. There is no need for further purification - BakerDRY solvents arrive ready-to-use in your synthesis application. BakerDRY anhydrous solvents are application optimized and function tested for organic, organometallic, and oligonucleotide synthesis.

BakerDRY™ ANHYDROUS SOLVENTS

Description	Water content	Product Number
Acetonitrile	10 ppm	9035
BIS (2-methoxyethyl) Ether (Diglyme)	50 ppm	9296
Dichloromethane	60 ppm	9295
Dimethylformamide	20 ppm	9213
Ether (contains no preservative)	10 ppm	9250
Hexanes	20 ppm	9277
Methanol	30 ppm	9097
Tetrahydrofuran (contains no preservative)	10 ppm	9446
Tetrahydrofuran (contains BHT)	10 ppm	9447
Toluene	10 ppm	9364

Most solvents are available in the CYCLE-TAINER solvent delivery system.

Application Optimized

- Purified to remove impurities such as water, peroxides, dissolved oxygen, and residue to the lowest levels in the industry
- Many are manufactured without preservatives which would interfere with the application.
- Special packaging allows multiple uses while minimizing the introduction of contaminants

Function Tested

- QC tested to confirm high assay and low water, peroxide, and residue after evaporation levels

For more information about J.T.Baker® brand reagents, please contact Avantor Performance Materials B.V. at +31-570-687500 or your local area sales manager.

ISO Phillipsburg, NJ 9001:2008 & 14001:2004; Paris, KY 9001:2008; Mexico City, Mexico 9001:2008; Deventer, the Netherlands 9001:2008, 14001:2004 & 13485:2003; Gliwice, Poland 9001:2008 & 17025:2005; Selangor, Malaysia 9001:2008; Dehradun, India 9001:2008, 14001:2004 & 13485:2003; Mumbai, India 9001:2008 & 17025:2005

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 Fine Chemicals™, Rankem™, Diagnova™, BeneSphera™, 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 and flat panel displays. Based in Center Valley, Pennsylvania (USA), Avantor is owned by an affiliate of New Mountain Capital, LLC.

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

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