



High-Purity Reagents for Gas Chromatography (GC)

Our GC product line includes high-purity solvents, derivatization reagents, and auxiliary materials designed to deliver clean chromatographic profiles, minimal background noise, and reliable performance in GC and GC-MS analyses.

Key application areas: pesticide analysis, environmental testing, food safety, materials analysis, and pharmaceutical QC.

Our GC product portfolio is divided into two specialized product groups designed for different analytical workflows.

Reagents for GC trace analysis

All GC solvents undergo stringent quality control using **ECD** and **FID** detectors, tested on samples concentrated **500-fold** to ensure ultra-low background levels.

Guaranteed specifications:

- ✓ **ECD (lindane → DDT):** no peaks > 5 ng/L
- ✓ **FID (2 octanol → tetradecanol):** exceptionally clean baseline

All products listed below are **GC trace analysis**.

Our range includes:

- Solvents for **GC trace analysis**
- Solvents for **Headspace GC (HS-GC grade)**
- **Drying** agents
- **Derivatization** reagents for GC



| Product number | Product name | CAS number | Pack sizes |
|--------------------------------|--|----------------|-------------------|
| Solvents | | | |
| 321007 | Acetone | 67-64-1 | 2.5 L |
| 321881 | Acetonitrile | 75-05-8 | 2.5 L |
| 321250 | Cyclohexane | 110-82-7 | 2.5 L, 10 L |
| 321254 | Dichloromethane stabilized with ~ 20 ppm of amylene | 75-09-2 | 1 L, 2.5 L |
| 321318 | Ethyl Acetate | 141-78-6 | 2.5 L |
| 322062 | n-Heptane | 142-82-5 | 2.5 L |
| 323242 | n-Hexane 95% | 110-54-3 | 2.5 L, 10 L, 30 L |
| 322064 | Isooctane | 540-84-1 | 2.5 L |
| 321315 | Petroleum Ether 40-60°C | 64742-49-0 | 2.5 L |
| 321745 | Toluene | 108-88-3 | 2.5 L |
| Drying Agent | | | |
| 325709 | Sodium Sulfate anhydrous | 7757-82-6 | 1 kg |
| Derivatization Reagents | | | |
| 355588 | Bis-(trimethylsilyl)-trifluoroacetamide (BSTFA) | 25561-30-2 | 25 mL |
| 355587 | N-Methyl-N-(Trimethylsilyl) Trifluoroacetamide (MSTFA) | 24589-78-4 | 10 x 10 mL |
| 355650 | Silan-Sterol-1 | Not applicable | 20 x 1 mL |

Designed for laboratories that demand maximum sensitivity and ultra-clean GC baselines in trace-level workflows.

Solvents for Headspace GC (HS-GC Grade)

Residual solvents present in pharmaceuticals must be strictly monitored according to the **ICH Q3C** guidelines, adopted in **Ph. Eur. 2.4.24** and **USP <467>**.

Headspace Gas Chromatography is the reference method for determining these impurities in **APIs, excipients** and **finished products**.

During sample preparation, the product is dissolved in a suitable solvent such as **DMSO, DMF or DMA**. To ensure reliable quantification, this solvent must be free from the same residual solvents being analyzed.



Our **Headspace-grade** solvents are produced under enhanced purification standards and specialized packaging protocols, ensuring:

- **Ultra low residual solvent content**
- **Outstanding reproducibility in HS GC**
- **Full suitability for regulatory QC workflows**

We offer four solvents widely used in **pharmaceutical analysis**, specifically validated for commonly **Headspace GC** applications.

ICH Q3C Classification:

- **Class 1:** To be avoided
- **Class 2:** To be limited
- **Class 3:** Low toxic potential

All products listed below are **Headspace-grade (HS GC)**.

| Product number | Product name | CAS number | Pack sizes |
|----------------|-----------------------------|------------|------------|
| 753145 | N,N-Dimethylacetamide (DMA) | 127-19-5 | 1 L |
| 751785 | N,N-Dimethylformamide (DMF) | 68-12-2 | 1 L, 2.5 L |
| 751954 | Dimethyl Sulfoxide (DMSO) | 67-68-5 | 1 L, 2.5 L |
| 753080 | 1-Methyl-2-Pyrrolidone | 872-50-4 | 1 L |

Developed to ensure robust, regulation-compliant residual solvent testing in pharmaceutical quality control.

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