

GC-Headspace Solvents

Analyze volatile compounds

USP chapter 467 and Ph Eur Chapter 2.4.24 designate the maximum allowed residual solvent limits to ensure pharmaceutical products are free of impurities that could be harmful to an end-user. When analyzing for organic volatile impurities via the GC-Headspace technique, it is imperative that the solvents used do not contribute extraneous peaks, or interfere with the analytes being investigated.

To meet these purity standards, GFS Headspace solvents are:

- Produced under strict controls to reduce volatile impurities
- Bottled under tight controls to reduce any atmospheric traces of residual solvents
- Analyzed by GC-Headspace to ensure batch-to-batch quality and consistency

Product Description	Item #	CAS	Size
N,N - Dimethylacetamide, GC-Headspace, Veritas Ultimate	27815	127-19-5	1L
N,N - Dimethylformamide, GC-Headspace, Veritas Ultimate	27816	68-12-2	1L
Dimethyl sulfoxide, GC-Headspace, Veritas Ultimate	27817	67-68-5	1L
1-Methyl-2-Pyrrolidone, GC-Headspace, Veritas Ultimate	27818	872-50-4	1L
Benzyl Alcohol, GC-Headspace, Veritas Ultimate	27819	100-51-6	1L

Impurity Profile:

Packed under inert gas. Suitable for residual solvents analysis according to US guidelines. Class 1 according to ICH

Benzene (GC): absence of peak

Dichloromethane: 0.6 mg/L Max

tert-Butyl methyl ether: 1 mg/L Max

Acetone : 1 mg/L Max

Methanol : 1 mg/L Max

Tetrahydrofuran: 0.7 mg/L Max

n-Hexane: 0.3 mg/L Max

Ethyl acetate: 1 mg/L Max

Ethanol: 1 mg/L Max

Cyclohexane: 1 mg/L Max

Acetonitrile: 0.4 mg/L Max

2-propanol: 1 mg/L Max

Isopropyl acetate: 1 mg/L Max

n-Propanol: 1 mg/L Max

n-Heptane: 1 mg/L Max

Methylcyclohexane: 1 mg/L Max

1,4-Dioxane: 0.4 mg/L Max

Toluene: 0.9 mg/L Max

Pyridine: 1 mg/L Max

n-Butanol: 1 mg/L Max

Butyl acetate: 1 mg/L Max

Ethylbenzene: 1 mg/L Max

p-Xylene: 1 mg/L Max

m-Xylene: 1 mg/L Max

o-Xylene: 1 mg/L Max

Other class 2 solvents: 10 mg/L Max

Other class 3 solvents: 50 mg/L Max