Scharlau

The wise choice

Solvents for GC-MS

Polyaromatic hydrocarbons analysis, chlorinated pesticides, dioxin and furans in food, phthalates in plastic or organic materials characterisation are just some of the applications for the GC-MS technique.

Mass Spectrometry is one of the most critical points in this technique; non-volatile impurities, metallic impurities or column bleeding can distort the mass spectrum and reduce equipment lifetime. For these reasons, GC-MS solvents must be highly purified with low metallic impurities.

Scharlab has developed a high purity GC-MS solvents portfolio. These products undergo rigorous purification procedures to ensure the highest chemical purity and the absence of impurities to obtain reproducible, reliable and accurate results.

All the GC-MS solvents are microfiltered to reduce non-volatile impurities and avoid equipment obstructions saving in equipment maintenance.

Metallic impurities at ppm level can distort mass spectrum, modifying the abundance of molecular ions of interest and complicating interpretation. GC-MS solvents are packaged in bottles and undergo a special treatment to avoid metal migration from the glass to the solvent.

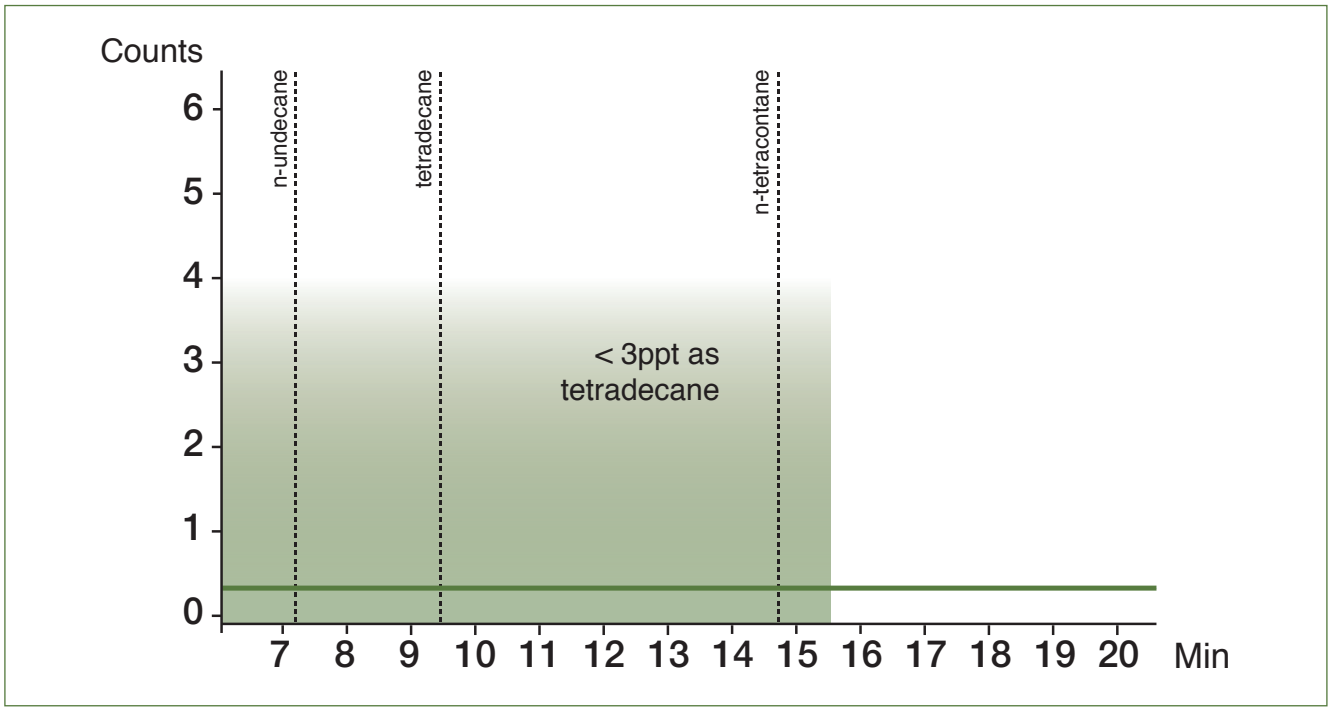
The GC-MS Scharlau solvents offer:

- Rigorous purification procedures
- Batch consistency
- Reliable and reproducible results
- Chromatograms with the minimal signal-to-noise
- Large application area due to the largest retention time range
- Low content of metallic impurities
- Certificate of actual batch analysis
- Impurities controlled by GC-MS

Strict quality control

The QC control performed by GC - MS X 1000 concentrated to ensure a clean chromatogram without interferences.

GC-MS test: Absence of peaks greater than 3ppt (expressed as n-tetradecane) from n-undecane to n-tetracontane.



Usual analytical conditions:

Column SC-5MS 30m x 0,25mm x 0,25µm
Splitless mode
Oven Temp.: 45°C - 300°C at 20°C/min
Injector Temp.: 280 °C
Detector Temp.: 230°C

The benefits of GC-MS Scharlau are:

- Simpler, cleaner spectra
- Avoid equipment and column obstructions
- Prevent the formation of unwanted adducts with metallic impurities
- Saving in equipment maintenance
- The most comprehensive application area due to the largest retention time range
- Reliable results due to minimal signal-to-noise ratio

Ordering information

Description	Packaging	Art. NO.
Ethyl acetate, GC-MS	1 L	AC01371000
	2,5 L	AC01372500
Acetone, GC-MS	1 L	AC02931000
	2,5 L	AC02932500
Acetonitrile, GC-MS	1 L	AC03661000
	2,5 L	AC03662500
Cyclohexane, GC-MS	1 L	CI00281000
	2,5 L	CI00282500
Dichloromethane, GC-MS	1 L	CL03461000
	2,5 L	CL03462500
2,2,4-Trimethylpentane, GC-MS	1 L	IS01671000
	2,5 L	IS01672500
n-Hexane, GC-MS	1 L	HE02481000
	2,5 L	HE02482500
Methanol, GC-MS	1 L	ME02981000
	2,5 L	ME02982500
Toluene, GC-MS	1 L	TO00681000
	2,5 L	TO00682500

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