



Your partner
**for ultra-pure
Solvents,
Formulations
and Reagents**

for your most challenging
analytical applications



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www.biosolve-chemicals.eu



Biosolve, producer and supplier of solvents and other chemicals for research and routine analysis, is well known for its extremely pure solvents, formulations, and modifiers for use in demanding applications.

Biosolve also watches the analytical market carefully for new developments and anticipates by developing new grade products for specific analytical challenges. With a 100% own production and globally recognized quality, Biosolve is a major player

in the worldwide market. We specialize in the development and production of high purity products for environmental and food-safety applications and are also highly recognized in pharmaceutical, chemical, biotechnology and food industries.

We specifically focus on solvents and formulations for HPLC, UHPLC, Mass Spectrometry. Please contact your Biosolve specialist for additional information on your solvent/additive of choice.



New Products

Proteomics, Metabolomics, Metabolite ID, Small Molecule Compound Identification, and typical Bioanalytical applications. HR-MS Grade Acetonitrile also proved to be very effective in improving the performance of typical ULC/MS-MS analysis systems by reducing the Chemical background and by avoiding the formation of unwanted adducts.

The following products are available:

- Acetonitrile PFAS Grade Solvent
- Methanol PFAS Grade Solvent
- Water PFAS Grade Solvent



HR-MS PFAS Grade Solvents

Because of their widespread use and their persistence in the environment, many PFAS are found in the blood of people and animals all over the world and are present at low levels in a variety of food products and in the environment. Scientific studies have shown that exposure to some PFAS in the environment may be linked to harmful health effects in humans and animals. The European Commission commits to phasing out all PFAS, allowing their use only where they are proven to be irreplaceable and essential to society. The recast of the Drinking Water Directive, which took effect on 12 January 2021, includes a limit of 0.5 µg/l for all PFAS.

PFAS are measured by ULC/MS, but since most solvents contain trace level of PFAS results are jeopardized by unacceptable background levels and false positives. Biosolve developed and produced the solvents below specifically for PFAS Analysis.

Our ULC/MS grade solvents has proven to be very suitable for extremely low-level MRM measurements and High Resolution MS applications. HR-MS grade solvents allow the acquisition of cleaner MS Spectra and Chromatograms, both in positive and negative ionization modes. HR-MS Grade Acetonitrile is ideal for typical High-Resolution MS situations, like in

MOSH-MOAH Grade Solvents



The European Commission for Standardization recently defined the EN 16995 Standard for the determination of MOSH/MOAH by on-line HPLC-CG-FID analysis for vegetable oils and vegetable oil-based food products. Initial studies clearly indicated a demand for highly purified solvents and based on the MOSH/MOAH requirements Biosolve has developed a new line of specially purified solvents that have been tested and certified to meet this need. Biosolve MOSH/MOAH grade products are fully quality controlled and guaranteed by HPLC/UVGC/FID and GC/MS to contain less than 3 ng/ml both for MOSH and MOAH. No MOSH/MOAH peaks are observed in the range of C10 to C50. Obviously, a full Certificate of Analysis is made available with the products.

The following products are available:

- n-Hexane LV-GC Suitable for MOSH/MOAH
- Dichloromethane S/Amylene LV-GC Suitable for MOSH-MOAH

ULC/MS-CC/SFC Solvents

Checked and guaranteed to meet the highest demand for any detection mode connected to ultra-high-performance liquid chromatography (UHPLC), convergence chromatography (CC) and supercritical fluid chromatography (SFC). In addition, we supply a full range of Solvents and Modifiers for HPLC, LC/MS, ULC/MS, and various optical detection systems.



Our solvents and extractants for Gas Chromatographic applications, like Pesti-S, Dioxins, Headspace, PAH, Furans, PCB & LV-GC have proven to be essential "tools" in environmental and food-safety analysis. We supply the following solvents and grades:

LV-GC Grade Solvents

Developed for ultimate Trace Organic Analysis. Specifically for use in Large Volume GC injectors, but in general solvents with the lowest background signals in the market.

This solvents range is suitable for ultimate organic trace analysis and checked for ppt levels of Dioxins, Furans, PCB's, Pesticides, and ppb levels of Poly-Aromatic Hydrocarbons (PAH's), Mineral oil hydrocarbons and other residual organic contaminants. Each batch is fully analysed after 1000:1 concentration with HPLC-PDA, GC-FID, GC-ECD and GC-MS. We supply 28 different LV-GC solvents, so please contact your Biosolve specialist for detailed information.

Dioxins, Furans, PCB's Grade Solvents

Specifically analysed for the detection of ultra-low level of dioxin and C2 to C10 PCB analysis including furans, dioxins and TCDD isomers. Each batch is fully tested by GC-ECD after concentration 1000:1 and compared to internal standard of 5ppt of Lindane, 5ng/L.

Pesti-S

Our classical solvent for analysis of pesticides, residue, ECD and NPD analysed for the evaluation of pesticide residues. ECD tested after 1000:1 concentration, suitable for the analysis of common pesticides in the range of α -BHC to 2,4'-DDT. Each batch is fully tested after concentration 1000:1 and compared to internal standard of 5ppt of Lindane, 5ng/L.



GC Headspace Solvents

Biosolve's GC Headspace solvents are optimized for accurate analysis of OVI. Every single production batch is specifically evaluated by analysis against OVI standard to ensure the absence of interfering peaks in the GC chromatogram, by both polar and non-polar GC columns. They are suitable for the analysis of OVI as described by the ICH, USP & EP methods.

Determination of volatile organic compounds in water and soils: « Purge and Trap » method Methanol Purge & Trap 136828.

