

PESTINORM[®] solvents

01. LOW ORGANIC AND
HALOGENATED
DERIVATIVES

02. OPTIMISED FOR GC
APPLICATIONS



The PESTINORM® range

Detection of trace organic substances in the environment requires the use of highly purified solvents for all stages of analysis, starting with sample preparation. PESTINORM® solvents are guaranteed specifically for use in pesticide residue analysis. The range offers extremely low halogenated and other organic compounds to prevent sample contamination.

Purified from selected raw materials under ISO 9001 conditions, all these solvents are:

- Filtered at 0,2 µm
- Bottled under nitrogen
- Fitted with caps which have PTFE liners to prevent contamination
- Packed in standard glass bottles with DIN 45 closures
- Evaporation residue less than 5 ppm (<3 ppm for the SUPRA TRACE grade)

FOR PESTICIDE
RESIDUE
ANALYSIS

features

- Everyday use
- High purity for capillary GC
- Specialist headspace solvents
- Universal solvent - matrix independant

PESTINORM® SOLVENTS

Designed to meet the day-to-day requirements of research and analytical laboratories that test samples for the presence of pesticides or insecticides.

- Max. residue on evaporation: 5 ppm
- Max. 5 ng/l of lindane by electron capture detection
- Max. 10 ng/l of ethylparathion by phosphorous nitrogen detection

Substance	Min. Assay (%)	Pk (l)	Cat. No.
Acetone	99,7	1	83656.290
	99,7	2,5	83656.320
	99,7	1	83657.290
Acetonitrile	99,7	2,5	83657.320
	99,5	1	83658.290
Cyclohexane	99,5	2,5	83658.320
	99,8	1	83665.290
Dichloromethane (stab. MB*)	99,8	2,5	83665.320
Diethyl ether (stabilised with ethanol)	99,5	2,5	83659.320
	99,8	1	85933.290
Ethanol	99,8	2,5	85933.320
	99,7	1	83660.290
Ethyl acetate	99,7	2,5	83660.320
Isohexane (mixture of isomers)	-	2,5	85934.320
	99,7	1	83662.290
Methanol	99,7	2,5	83662.320
	95,0	1	83661.290
N-Hexane	95,0	2,5	83661.320
	99,8	1	85936.290
N,N-Dimethylformamide	99,8	2,5	85936.320
Petroleum spirit 40 - 60 °C	-	2,5	83663.320
	99,8	1	85932.290
tert-Butyl methyl ether	99,8	2,5	85932.320
Toluene	99,7	2,5	83664.320

*Stabilised with 2-methyl-2-butene.

PESTINORM® HIGH PURITY SOLVENTS FOR CAPILLARY GC ANALYSIS

- Max. acidity 0,001 meq/l
- Max. residue 0,001%
- Max. organic residue in Octanol (GC/FID) 10 ng/ml
- Max. halogenated residue in Lindane (GC/ECD) 5 ng/l
- Supplied in 2,5 l glass bottles

Substance	Min. Assay (%)	Max. water (%)	Cat. No.
Acetone	99,9	0,2	83960.320
Dichloromethane(stab. MB*)	99,9	0,05	83961.320
N-Hexane	99	0,01	83962.320
Ethyl acetate	99,8	0,05	83963.320
N-Pentane	99	0,01	83964.320
Petroleum spirit 40 - 60 °C	-	0,05	83965.320
Methanol	99,9	0,1	83966.320

*Stabilised 50 ppm of 2-methyl-2-butene.

PESTINORM® HEADSPACE SOLVENTS

Static headspace GC (GC-HS) concentrates volatile analytes prior to analysis improving detection of low levels of volatile analytes and minimising matrix interference by eliminating direct sample injection.

These very high purity (>99,9%) have been developed specifically for this application as the composition and purity of the sample solvent can have significant effects on recovery and hence the quality of a chromatogram.

- Very high UV transmittances
- Meets Ph. Eur. requirements
- Batch controlled by specifically evaluating against OVI standard (OVI = Organic Volatile Impurities)
- Suitable for the analysis of OVI as described by ICH, USP and EP methods

Substance	Pk (l)	Cat. No.
N,N Dimethylformamide	1	85395.290
N,N Dimethylformamide	2,5	85395.320
Dimethylsulphoxide	1	85396.290
Dimethylsulphoxide	2,5	85396.320
N,N Dimethylacetamide	1	85397.290
N Methylpyrrolidone-2	1	85398.290
1,3 Dimethyl 2 imidazolidone	1	85448.290

PESTINORM® SUPRATRACE – A UNIVERSAL SOLVENT FOR EVERY APPLICATION

Using PESTINORM® SUPRATRACE, you need only one solvent quality irrespective of sample matrix (e.g. water or soil) or detection methods (GC-ECD, GC-FID, GC-MS). Determines components equally well in high, medium or even low boiling ranges.

- Very high purity (>99,9%)
- High reliability, more flexibility, better cost efficiency
- Residue on evaporation <3 ppm
- Supplied in 1 and 2,5 l bottles

Substance	Pk (l)	Cat. No.
	1	85801.290
2,2,4-Trimethylpentane	2,5	85801.320
2-Propanol	2,5	85391.320
Acetone	2,5	85384.320
Acetonitrile	2,5	85935.320
	1	85853.290
Chloroform	2,5	85853.320
Cyclohexane	2,5	85385.320
Dichloromethane	2,5	85386.320
Dichloromethane for MOSH/MOAH analysis	2,5	85958.320
Ethyl acetate	2,5	85387.320
Methanol	2,5	85394.320
n-Heptane 99%	2,5	85388.320
n-Hexane 95%	2,5	85389.320
n-Hexane 99%	2,5	85390.320
n-Hexane 99% for MOSH/MOAH analysis	2,5	85957.320
	1	85852.290
n-Pentane	2,5	85852.320
Petroleum spirit 40 - 60 °C	2,5	85392.320
Toluene	2,5	85393.320

Custom-made standards

PESTICIDE MIXTURES FOR GC, HPLC, GC-MS OR LC-MS

VWR, working with CPACHEM, offer a custom standard service. Made from very high quality substances, define your own components, for example, chlorinated and organic acids, BTEX, carbamates, COV, herbicides, nitroaromatics, PAH's, PCB's, PBDE, phenols, phosphorus...



ORGANIC CUSTOM MULTI-ELEMENT STANDARDS

- A ampoules (1 and 5 ml) or CERTAN bottles (1, 4, 5 or 10 ml)
- Certificate of Analysis delivered with the solution (gravimetric and qualitative documentation)

Contact your local VWR sales office to request your quotation. Include details of substance, matrix, concentrations and packaging requirements.



Setting science in motion to create a better world



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