Pesticide Residue Analysis Solvents

Product Specification

Our pesticide residue analysis solvents are screened for halogenated residues by capillary gas chromatography equipped with an electron capture detector (ECD) and certified free of pesticide residues detected by ECD. They are ideal for the most stringent pesticide monitoring. A data sheet is provided for each product.

Cyclohexane
Water: <0.01% by Karl Fischer titration Refractive Index: 1.4240 ±0.00020 at 20°C Boiling Range: 80-81°C Residue: <1mg/L Purity: >99.5% by GC analysis Electron Capture GC: No residue peaks greater than 10ng/L as heptachlor epoxide

4 x 4L 320633

Ethyl Acetate
Water: <0.03% by Karl Fischer titration Refractive Index: 1.3721 ±0.0003 at 20°C Boiling Range: 77-78°C Residue: <1mg/L Purity: >99.5% by GC analysis Electron Capture GC: No residue peaks greater than 10ng/L as heptachlor epoxide

4 x 4L 324027

Heptane
Water: <0.01% by Karl Fischer titration Refractive Index: 1.3878 ±0.0006 at 20°C Boiling Range: 98-99°C Residue: <1mg/L Purity: >99.5% n-heptane and saturated C7 hydrocarbons by GC analysis Electron Capture GC: No residue peaks greater than 4µg/L as heptachlor epoxide

4 x 4L 324043

Hexanes
Water: <0.01% by Karl Fischer titration UV Absorbance: Optical transparency is not controlled. Not suitable for spectrophotometric applications. Refractive Index: 1.3770 ±0.0020 at 20°C Boiling Range: 68-69°C Residue: <1mg/L Purity: >99.5% n-hexane and saturated C6 hydrocarbons by GC analysis Electron Capture GC: No residue peaks greater than 4µg/L as heptachlor epoxide

4 x 4L 316490

Isopropyl Alcohol
Water: <0.01% by Karl Fischer titration Refractive Index: 1.3766 ±0.0004 at 20°C Boiling Range: 82-83°C Residue: <1mg/L Purity: >99.9% by GC analysis Acidity: Not detectable (limit 1mg/L as HCl) Chloride: Not detectable (limit 10mg/L) Alkaline Extraction: Absorbance of 7:1 aqueous alkaline extract not more than 0.10 at 240nm Electron Capture GC: No residue peaks greater than 10ng/L as heptachlor epoxide

4 x 4L 316490

Methanol
Water: <0.05% by Karl Fischer titration Refractive Index: 1.3284 ±0.0004 at 20°C Boiling Range: 64-65°C Residue: <1mg/L Purity: >99.9% by GC analysis Electron Capture GC: No residue peaks greater than 10ng/L as heptachlor epoxide

4 x 4L 324051
### Methylene Chloride
**Preservative:** Cyclohexane  
**Water:** < 0.01% by Karl Fischer titration  
**Refractive Index:** 1.4241 ± 0.0005 at 20°C  
**Boiling Range:** 40-41°C  
**Residue:** < 1mg/L  
**Acidity:** Not detectable (limit 1 mg/L as HCl)  
**Chloride:** Not detectable (limit 10mg/L)  
**Purity:** > 99.9% by GC analysis  
**Electron Capture GC:** No residue peaks greater than 10ng/L as heptachlor epoxide  

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4 x 4L  323993
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### Petroleum Ether
**Water:** < 0.01% by Karl Fischer titration  
**Refractive Index:** 1.3650 ± 0.0050 at 20°C  
**Boiling Range:** 30-60°C  
**Residue:** < 1mg/L  
**Purity:** > 99% total pentane and hexane isomers by GC analysis  
**Electron Capture GC:** No residue peaks greater than 10ng/L as heptachlor epoxide  

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4 x 4L  320668
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### Pentane
**Water:** < 0.01% by Karl Fischer titration  
**Refractive Index:** 1.3576 ± 0.0003 at 20°C  
**Boiling Range:** 35-37°C  
**Residue:** < 1mg/L  
**Purity:** > 98% n-pentane, > 99.9% n-pentane and saturated CS hydrocarbons by GC analysis  
**Electron Capture GC:** No residue peaks greater than 10ng/L as heptachlor epoxide  

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4 x 4L  316504
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### Toluene
**Water:** < 0.03% by Karl Fischer titration  
**Refractive Index:** 1.4697 ± 0.0004 at 20°C  
**Boiling Range:** 110-111°C  
**Residue:** < 1mg/L  
**Purity:** > 99.8% by GC analysis  
**Electron Capture GC:** No residue peaks greater than 4ng/L as heptachlor epoxide  

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4 x 4L  324094
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**Note:** Due to shipping quantity regulations, these solvents are not available in Europe.

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Contact our Technical Service Department  
(phone 800-359-3041 or 814-359-3041, FAX 814-359-5468)  
for expert answers to your questions.