

## ETHYL ETHER

**Product Number 107**  
**Packaged in 1L and 4L Glass Bottles**

**Contains No Preservatives**

### Specifications:

Packed under nitrogen  
Contains no preservatives  
Water: Less than 0.03% by Karl Fischer titration  
Ultraviolet absorbance:

Wavelength, nm	Maximum Absorbance
215	1.000
250	0.080
275	0.010
300	0.005
400	0.005

Refractive Index:  $1.3521 \pm 0.0005$  at 20°C  
Residue: Less than one mg/L  
Purity: Greater than 99.9% by GC analysis  
Peroxides: Less than one ppm as H<sub>2</sub>O<sub>2</sub> at time of packaging  
Electron capture GC: No residue peaks greater than 10 ng/L as heptachlor epoxide

### Physical Properties:

Molecular weight: 74.12  
Boiling point: 35°C(94°F)  
Vapor pressure: 442 mm Hg at 20°C  
Freezing point: -117.4°C(-177°F)  
Refractive index: 1.3524 at 20°C  
Density: 0.7133 g/mL (5.952 lb/gal) at 20°C  
0.7076 g/mL (5.905 lb/gal) at 25°C  
Dielectric constant: 4.33 at 20°C  
Dipole moment: 1.15 D at 20°C  
Solvent group: 1  
Polarity index (P'): 2.8  
Eluotropic value on alumina: 0.38  
Viscosity: 0.24 cP at 20°C  
Surface tension: 17.06 dyn/cm at 20°C  
Solubility in water: 6.89% at 20°C  
Solubility of water in ethyl ether: 1.26% at 20°C

### Regulatory and Safety Data:

DOT Hazard Class: 3, Pkg Grp I, UN1155, Flammable Liquid  
Store in an area designed for flammable storage, or in an approved metal cabinet, away from direct sunlight, heat, and sources of ignition.  
EPA applicable waste code(s): U117, D001  
Flash point: -49°F (-45°C) by closed cup  
Lower explosive limit: 1.9%  
Upper explosive limit: 36.0%  
Time Weighted Average: 400 ppm ACGIH

**Refer to Material Safety Data Sheet for additional regulatory, health and safety information.**

### Suggested Applications:

For HPLC, gas chromatography, pesticide residue analysis and spectrophotometry.