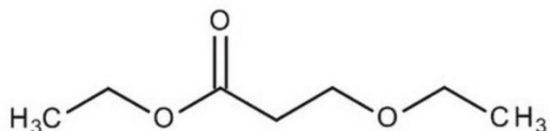


Ethyl 3-ethoxypropionate (EEP)



Ethyl 3-Ethoxypropionate (EEP) is a high-performance ether-ester solvent recognized for its slow evaporation rate, excellent solvency, and superior flow and leveling characteristics. Its unique linear molecular structure, containing both ether and ester functional groups, delivers a balanced combination of properties that make it especially effective in demanding industrial formulations.

EEP is a clear, colorless liquid with a mild, ester-like odor and is valued for its ability to dissolve a wide range of resins and polymers while maintaining low surface tension and high electrical resistance. These characteristics help improve coating appearance, reduce defects such as solvent popping, and promote smooth film formation.

CAS number

763-69-9

Synonyms

Propanoic acid, 3-ethoxy-, ethyl ester; Propionate, 3-ethoxy-, ethyl; Propionic acid, 3-ethoxy-, ethyl ester; EEP solvent; 3-Ethoxypropionic acid, ethyl ester

Product code

42010

Typical Physical Properties of EEP

Molecular Weight	146.19 g/mol
Empirical Formula	C ₇ H ₁₄ O ₃
Appearance	Colorless Liquid
Freezing Point	-50°C (-58°F)
Boiling Point @ 760mm Hg	166°C (331°F)
Flash Point – Closed Cup	58°C (136°F)
Autoignition Temperature	377°C (711°F)
Density @ 20°C	0.95 kg/L 7.93 lb/gal
Vapor Pressure @ 25°C	1.5 mmHg
Solubility	
in Water @ 20°C	2.9 Wt%
Water in @ 20°C	2.2 Wt%
Surface Tension @ 23°C	27 dynes/cm
Refractive Index @ 20°C	1.4074
Viscosity @ 25°C	1.2 cP
Heat of Vaporization	10170 cal/g-mol
Heat of Combustion	-898.7 kcal/g-mol
Evaporation Rate (nBuAc = 1)	0.12
Electrical Resistance	20 Megohms
Hansen Solubility Parameter	
Total	18.7 (MPa) ^½
Nonpolar	16.2 (MPa) ^½
Polar	3.3 (MPa) ^½
Hydrogen Bonding	8.8 (MPa) ^½

Note: The properties reported above are typical physical properties. Monument Chemical in no way guarantees that the product from any particular lot will conform exactly to the given values.

Health and safety information

Under current U.S. OSHA's Hazardous Communication program EEP is classified as a flammable liquid. Keep the material away from heat sources, hot surfaces, open flames, and sparks.

Observe good industrial hygiene practices and use appropriate Personal Protective Equipment.

For full safety information please refer to the Safety Data Sheet.

Storage and Handling

General industry practice is to store EEP in carbon steel vessels. Storage in properly lined steel or stainless steel to avoid slight discoloration from carbon steel is recommended. Product stored or delivered in unlined carbon steel vessels must be filtered due to technically unavoidable particles.

EEP should be stored under a nitrogen blanket when available. This product may absorb water if exposed to air. Avoid contact with air when storing for long periods of time.

EEP should be stored only in tightly closed, properly vented containers away from heat, sparks, open flame or strong oxidizing agents. Use only non-sparking tools. Containers should be grounded before beginning transfer. Electrical equipment should conform to national electric code.

Handle empty containers carefully. Combustible residue remains after emptying.

Provided proper storage and handling precautions are taken, EEP manufactured and delivered by Monument Chemical is stable for at least 12 months from the date of manufacture. EEP that is subsequently repackaged, handled and/or delivered by third parties may have a different shelf life and may require third party shelf life studies. Product past the retest date should be evaluated to confirm that all specifications are within their limits before use.

Additional Information

To learn more about Monument Chemical and the products and services we offer please visit our website at www.monumentchemical.com.

Effective Date: 2/9/2026

Revision: 1

Disclaimers

Please refer to the Safety Data Sheet (SDS) for complete information on Storage and Handling, Toxicological Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an SDS, email SDS@monumentchemical.com. Before using or handling this product, the SDS should be thoroughly reviewed.

Monument Chemical believes the information in this specific product Technical Data Sheet (TDS) is accurate, but makes no representations as to the sufficiency or completeness of the product or information in this TDS and makes no commitment to correct or bring up-to-date any such information and makes no commitment related to the use of the product in combination with other chemicals or as part of any other chemical processes. MONUMENT CHEMICAL MAKES NO WARRANTY TO THE USER OR RECIPIENT OF ANY PRODUCT FROM MONUMENT CHEMICAL, OR WITH RESPECT TO THE INFORMATION PROVIDED WITH THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE, OR OF NON-INFRINGEMENT OF THIRD PARTY RIGHTS OR PATENTS, WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING OR PERFORMANCE, USAGE OF TRADE OR OTHERWISE.

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