

## Technical Data Sheet



Product Name	UCAR™ Ester EEP
Synonyms	Ethyl 3-Ethoxypropionate; 3-Ethoxypropionic acid ethyl ester
Chemical Formula	$C_2H_5OCH_2CH_2CO_2C_2H_5$
Product Description	UCAR™ Ester EEP is a slow evaporating ether-ester solvent with excellent solvent properties for a wide range of coating applications. It provides excellent film formation due to its enhanced flow and leveling characteristics.

Features	<ul style="list-style-type: none"><li>• Moderate odor</li><li>• High boiling point</li><li>• Low surface tension</li><li>• High electrical resistance</li><li>• Slow evaporation rate</li><li>• High solvency for a wide range of polymers</li><li>• Excellent retarder characteristics</li><li>• Ether-Ester functionality</li><li>• Excellent solvent release from coating films</li><li>• Low solution viscosity</li><li>• Excellent flow &amp; leveling</li><li>• Non-HAP (Hazardous Air Pollutant) Solvent</li></ul>
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Applications	<ul style="list-style-type: none"><li>• High solids coatings</li><li>• Electrostatically sprayed coatings</li><li>• Conventional enamels and lacquers</li><li>• Acrylic polymerization</li></ul>
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### Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	146.19
Boiling Point @ 760 mmHg, 1.01 ar	165 °C (329 °F)
Flash Point (Setaflash Closed Cup)	58 °C (136.4°F)
Freezing Point	-50 °C (-58°F)
Vapor pressure@ 25°C — extrapolated	0.7 mmHg 0.23 kPa
Specific gravity (20/20°C)	0.951
Liquid Density @ 20°C	0.949 g/cm <sup>3</sup>
Vapor Density (air = 1)	5
Viscosity (cP or mPa•s @ 20°C)	1.3
Surface tension (dynes/cm or mN/m @ 25°C)	28.1
Specific heat (J/g°C @ 25°C)	No test data available

Heat of vaporization (J/g) at normal boiling point	No test data available
Net heat of combustion (kJ/g) — predicted @ 25°C	No test data available
Autoignition temperature	377 °C (711 °F)
Evaporation rate (n-butyl acetate = 1.0)	0.1
Solubility, g/L or % @ 20°C	
Solvent in water	54.1
Water in solvent	--
Hansen solubility parameters (J/cm <sup>3</sup> ) <sup>1/2</sup>	
_Total	9.1
_Non-Polar	7.9
_Polar	1.6
_Hydrogen bonding	4.3
Partition Coefficient, n-octanol/water (log Pow)	1.35
Flammable limits (vol.% in air)	
Lower	1.05
Upper	No Test data available

**Typical Physical Properties:**

This data provided for those properties are typical values, and should not be construed as sales specifications.

**Classification/Registry Numbers/Country Inventory@.**

CAS#	763-69-9
AICS (Australia)	763-69-9
DSL (Canada)	763-69-9
IECSC (China)	763-69-9
ECl (Korea)	763-69-9/KE-13479
EINECS (EU)	212-112-9
MITI/ ENCS/IHSL (Japan)	763-69-9
NZIoC (New Zealand)	763-69-9
PICCS (Philippines)	763-69-9
TSCA (U.S.)	763-69-9

@NOTE: Classifications apply only to this Oxygenated Solvents product. It is the responsibility of the formulator to ensure that the final finished product complies with the regulations of a given country prior to its sale or distribution in that country.

**How Supplied**

REGION	PACKAGING	TRANSPORT MODE
Europe/Africa	Bulk/Drum	Tank Truck
North America	Bulk/Drum	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

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including Material Safety Data Sheets, should be consulted prior to the use.

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### For More Information

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(+60) 3-7958-3392

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