



Ethyl DIPROXITOL

Product Code	U5151
Region	Global
Product Category	Propylene Glycol Ethers
CAS Registry Number	34590-94-8
Synonym(s)	1-(2-ethoxymethylethoxy)-2-propanol, EtDIPROX, EDP, DPE
Description	Ethyl DIPROXITOL is a colourless, hygroscopic, high boiling liquid with a mild odour. It is miscible in any proportion with water and many organic solvents and has good solvent power for nitrocellulose and dyestuffs

Typical Properties

Property	Unit	Method	Value
Purity, min.	%m/m	GC	98.5
Water	%m/m	ASTM D1364	0.05
Acidity (as Acetic Acid)	%m/m	ASTM D1613	0.005
Density at 20°C	kg/l	ASTM D4052	0.932
Specific Gravity at 20°C/20°C	-	ASTM D4052	0.934
Specific Gravity at 25°C/25°C	-	ASTM D4052	0.930
Coefficient of Cubic Expansion at 20°C	10 ⁻⁴ /°C	Calculated	10
Refractive Index at 20°C	-	ASTM D1218	1.422
Colour	Pt-Co	ASTM D1209	< 5
Boiling Point	°C	-	194
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.03
Relative Evaporation Rate (Ether=1)	-	DIN 53170	450
Volatile Organic Compound (VOC)	g/l	EU / EPA	932
Flash Point (Abel)	°C	ASTM D93	87
Auto Ignition Temperature	°C	ASTM E659	199
Lower Explosion Limit	%v/v	-	0.8

Upper Explosion Limit	%v/v	-	9.6
Electrical Conductivity at 20°C	pS/m	ASTM D4308	1*10 ⁷
Dielectric Constant at 20°C	-	-	10.5
Freezing Point	°C	-	-77
Surface Tension at 20°C	mN/m	-	29
Viscosity at 20°C	mPa.s	-	4.2
Hildebrand Solubility Parameter	(cal/cm ³) ^{1/2}	-	9.1
Hydrogen Bonding Index	-	-	0.0
Fractional Polarity	-	-	0.050
Heat of Vaporisation at T _{boil}	kJ/kg	-	318
Heat of Combustion (Net) at 25°C	kJ/kg	-	29000
Specific Heat at 20°C	kJ/kg/°C	-	2.20
Miscibility at 20°C: Solvent in water	%m/m	-	complete
Miscibility at 20°C: Water in solvent	%m/m	-	complete
Molecular Weight	g/mol	-	162

Test Methods

Copies of copyrighted test methods can be obtained from the issuing organisations:

American Society for Testing and Materials (ASTM) : www.astm.org
Energy Institute (IP) : www.energyinst.org.uk
Deutsches Institut für Normung (DIN) : www.din.de

N.B: For routine quality control local test methods may be applied. Such methods have been validated against those mentioned in this datasheet.

Quality

Ethyl DIPROXITOL does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.

Hazard Information

For detailed Hazard Information please refer to the Safety Data Sheet on www.shell.com/chemicals.

Storage Handling

Provided proper storage and handling precautions are taken we would expect Ethyl DIPROXITOL to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Safety Data Sheet on www.shell.com/chemicals.

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