

	Issued:					
Data Sheet	26-Feb-2007					
Product Name	Ethyl PROXITOL					
Product Code	U5129					
Product Category	Propylene Glycol Ethers					
CAS Registry Number	1569-02-4; US: 52125-53-8					
EINECS Number	216-374-5					
Alternate Name	1-ethoxy-2-propanol, propylene glyd	col monoethy	l ether, PGEE, PE	E, EP		
Description	Ethyl PROXITOL is a colorless, hygroscopic solvent with a volatility, viscosity and solvent power similar to those of the ethylene oxide-based glycol ethers.					
Typical Properties	Property	Unit	Method	Value		
	Purity	% m/m	GC	min. 99.0		
	Water	% m/m	ASTM D1364	0.05		
	Density @20°C	kg/L	ASTM D4052	0.896		
	Cubic Expansion Coefficient @20°C	(10^-4)/°C	Calculated	10		
	Refractive Index @20°C	-	ASTM D1218	1.408		
	Color	Pt-Co	ASTM D1209	< 5		
	Boiling Point	°C	-	132		
	Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.49		
	Relative Evaporation Rate (Ether=1)	-	DIN 53170	33		
	Antoine Constant A #	kPa, °C	-	7.51525		
	Antoine Constant B #	kPa, °C	-	2310.49		
	Antoine Constant C #	kPa, °C	-	287.280		
	Antoine Constants: Temperature range	°C	-	+5 to 130		
	Vapor Pressure @20°C	kPa	Calculated	1.0		
	Vapor Pressure @50°C	kPa	Calculated	4.6		
	Saturated Vapor Concentration @20°C	g/m^3	Calculated	42		
	Flash Point	°C	IP 1 <i>7</i> 0	42		
	Auto Ignition Temperature	°C	ASTM E659	255		
	Explosion Limit: Lower	%v/v	-	1.3		

Explosion Limit: Upper

Freezing Point

Electrical Conductivity @20°C

Dielectric Constant @20°C

%v/v

μS/m

°C

12

20

10.4

-90

ASTM D4308

	Surface Tension @20°C	mN/m	-	26		
	Viscosity @20°C	mPa.s	ASTM D445	2.1		
	Hildebrand Solubility Parameter	$(cal/cm^3)^{1/2}$	-	9.0		
	Hydrogen Bonding Index	-	-	0.0		
	Fractional Polarity	-	-	0.080		
	Heat of Vaporization @Tboil	kJ/kg	-	412		
	Heat of Combustion (Net) @25°C	kJ/kg	-	28500		
	Specific Heat @20°C	kJ/kg/°C	-	2.3		
	Miscibility @20°C: Solvent in Water	% m/m	-	Complete		
	Miscibility @20°C: Water in Solvent	% m/m	-	Complete		
	Molecular Weight	g/mol	-	104		
	(#) In the Antoine temperature range, the vapor pressure P (kPa) at temperature T (°C) can be calculated by means of the Antoine equation: log $P = A - B/(T+C)$					
Test Methods	Copies of copyrighted test methods can be obtained from the issuing organisations:					
	American Society for Testing and Me Energy Institute (IP) Deutsches Institut für Normung (DIN)) : www.astm.org : www.energyinst.org.uk : www.din.de				
	For routine quality control analyses, local test methods may be applied that are different from those mentioned in this datasheet. Such methods have been validated and can be obtained through your local Shell Chemicals company.					
Quality	Ethyl PROXITOL can be supplied to meet the requirements of DIN 55998. Ethyl PROXITOL does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.					
Storage and Handling	Provided proper storage and handling precautions are taken we would expect Ethyl PROXITOL to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Material Safety Data Sheet on www.shell.com/chemicals.					
Hazard Information	For detailed Hazard Information please refer to the Material Safety Data Sheet on www.shell.com/chemicals.					
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