

	Issued: 23-Jul-2009 Hexane Extraction Grade Q1252 Africa						
Data Sheet							
Product Name							
Product Code							
Product Category	Special Boiling Point Solvents						
CAS Registry Number	64742-49-0						
EINECS Number	265-151-9						
Description	In the range of SBPs, Hexane is a fast evaporating hydrocarbon solvent that consists essentially of hexane isomers. A concentration of approximately 50% makes n-hexane the major component in this mixture. As a member of the SBF range it has undergone a high degree of general refining that results in a low level of impurities such as sulphur, olefins, benzene and total aromatics.						
Typical Properties	Property		Unit	Method	Value		
	Density @15°C		kg/l	ASTM D4052	0.677		
	Density @20°C		kg/l	ASTM D4052	0.673		
	Cubic Expansion Coef	ficient @20°C	(10^-4)/°C	-	13		
	Refractive Index @20°	С	-	ASTM D1218	1.380		
	Color		-	ASTM D156	+30		
	Bromine Index		mg Br/100g	IP 299	50		
	Distillation, IBP		°C	ASTM D1078	65		
	Distillation, DP		°C	ASTM D1078	69		
	Relative Evaporation R	ate (nBuAc=1)	-	ASTM D3539	7.2		
	Antoine Constant A #		kPa, °C	-	7.38070		
	Antoine Constant B #		kPa, °C	-	2110.27		
	Antoine Constant C #		kPa, °C	-	326.200		
	Antoine Constants: Ter	nperature range	°C	-	+20 to +70		
	Vapor Pressure @0°C	_	kPa LB	Calculated	8.2		
	Vapor Pressure @20°C		kPa	Calculated	19		
	Saturated Vapor Conc	entration @20°C	-	Calculated	681 05		
	Paraffins		% m/m	GC	85		
	Naphthenes		% m/m	GC	15		
	Aromatics Barrier		mg/kg	SMS 2728	< 100		
	Benzene		mg/kg	GC	< 10		
	Sulfur		mg/kg	ASTM D5453	< 5		
	Flash Point		°C	IP 170	-30		

	Auto Ignition Temperature	°C	ASTM E659	375			
	Explosion Limit: Lower	%v/v	-	1.1			
	Explosion Limit: Upper	%v/v	-	7.4			
	Electrical Conductivity @20°C	pS/m	-	< 1			
	Aniline Point	°C	ASTM D611	65			
	Kauri-Butanol Value	-	ASTM D1133	31			
	Pour Point	°C	ASTM D97	< -50			
	Surface Tension @20°C	mN/m	Du Nouy ring	19			
	Viscosity @25°C	mm ² /s	ASTM D445	0.47			
	Hildebrand Solubility Parameter	(cal/cm ³)^		7.3			
	Hydrogen Bonding Index	-	-	0			
	Fractional Polarity	-	-	0			
	, Molecular Weight	g/mol	Calculated	86			
	(#) 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 Materials (ASTM) : www.astm.org Energy Institute (IP) : www.energyinst.org.uk						
	Shell Method Series (SMS) methods are issued by Shell Golabl Solutions International B.V., Shell Research and Technology Centre, Amsterdam, The Netherlands. Copies of SMS can be obtained through your local Shell Chemicals company.						
	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	Hexane Extraction Grade 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 Hexane 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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