

	Issued:						
Data Sheet	21-Nov-2007						
Product Name	Hexane Polymerisation						
Product Code	Q1241	Europe					
Product Category	Special Boiling Po	int Solvents					
CAS Registry Number	64742-49-0						
EINECS Number	265-151-9						
Description	Hexane Polymerisate by the polymerisate a similar content of aromatics, olefins, o	on industry. The s other hexane iso	colvent contain mers. It is ver	ns about 50% n-l y low in impurtie	nexane, with		
Typical Properties	Property		Unit	Method	Value		
	Density @15°C		kg/l	ASTM D4052	0.675		
	Cubic Expansion Coe	efficient @20°C	(10^-4)/°C	Calculated	13		
	Refractive Index @20	o°C	-	ASTM D1218	1.379		
	Color		Saybolt	ASTM D156	+30		
	Bromine Index		mg Br/100g	ASTM D1492	< 5		
	Doctor Test		-	ASTM D235	Negative		
	Non Volatile Matter		mg/100ml	ASTM D1353	< 0.5		
	Distillation, IBP		°C	ASTM D1078	66		
	Distillation, DP		°C	ASTM D1078	70		
	Relative Evaporation		-	ASTM D3539	8.0		
	Relative Evaporation	Kate (Ether=1)	-	DIN 53170	1.4		

Antoine Constant A #

Antoine Constant B #

Antoine Constant C#

Vapor Pressure @0°C

Vapor Pressure @20°C

**Paraffins** 

**Naphthenes** 

**Aromatics** 

Benzene

n-Hexane

Antoine Constants: Temperature range

Saturated Vapor Concentration @20°C g/m³

kPa, °C

kPa, °C

kPa, °C

Calculated

Calculated

Calculated

SMS 2728

GC

GC

GC

GC

°C

kPa

kPa

% m/m

% m/m

mg/kg

mg/kg

% m/m

7.38070

2110.27

326.200

8.2

19

681

85

15 < 5

< 3

52

+20 to +70

	Sulfur	mg/kg	SMS 1897	< 0.5			
	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			
	Dielectric Constant @20°C	-	-	1.9			
	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	mm²/s	ASTM D445	0.49			
	Hildebrand Solubility Parameter	(cal/cm³)^1/2	-	7.3			
	Hydrogen Bonding Index	-	-	0			
	Fractional Polarity	-	-	0			
	Heat of Vaporization @Tboil	kJ/kg	-	333			
	Heat of Combustion (Net) @25°C	kJ/kg	-	46000			
	Specific Heat @20°C	kJ/kg/°C	-	2.2			
	Thermal Conductivity @20°C	W/m/°C	-	0.12			
	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 method	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  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.					
	Energy Institute (IP)						
	International B.V., Shell Research Netherlands. Copies of SMS can l						
	different from those mentioned in						
Quality	D1836. Hexane Polymerisation G	Hexane Polymerisation Grade can be supplied to meet the requirements of ASTM D1836. Hexane Polymerisation Grade does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.					
Hazard Information	For detailed Hazard Information p www.shell.com/chemicals.	For detailed Hazard Information please refer to the Material Safety Data Sheet on www.shell.com/chemicals.					
Storage and Handling	Hexane Polymerisation Grade to detailed advice on Storage and He	Provided proper storage and handling precautions are taken we would expect Hexane Polymerisation Grade 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.					

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