



NEODOL™ 1

TECHNICAL DATASHEET

Primary Alcohol

Updated: January 2021
SICC Product Code: V2705

Description:

- NEODOL 1 is a C11 high purity, lightly branched, primary alcohol manufactured using the Shell Hydroformylation (SHF) process. It can be used in a variety of applications, which include the manufacture of lube oils, alcohol ethoxylates, and alcohol ethoxysulfates. NEODOL 1 alcohol biodegrades fast, as measured in the OECD 301 test.

	Property	Unit	Value	Method
Typical Chemical Properties ^a	C10 and lower Alcohols	%m/m	< 0.5	SMS 2914
	C11 Alcohols	%m/m	> 98	SMS 2914
	C12 and higher Alcohols	%m/m	< 1	SMS 2914
	Total Hydrocarbons	%m/m	< 0.5	SMS 2914
	Normality	%m/m	> 75	SMS 2914
	Hydroxyl Number	mgKOH/g	323 – 327	SMS 2914
	Molecular Mass	g/mol	172 – 173	SMS 2914
	Color, Pt-Co		< 10	ASTM D1209
	Carbonyl as C=O	mg/kg	< 80	SMS 2097
	Acid Number	eq/100g	< 0.0005	SMS 2912
	Water	%m/m	< 0.1	ASTM E1064
	Appearance		CSFV ^b	Visual

a: An official sales specification is available from your local Shell Chemicals representative.

b: Clear & Substantially free of visual impurities

Typical Physical Properties	Property	Unit	Value	Method
	Density @ 20°C	kg/l	0.830	ASTM D4052
	Flashpoint	°C	121	ASTM D56/D92/D93
	Pour Point	°C	11	ASTM D5949/D97
	Kinematic Viscosity @ 40°C	mm ² /s	11	ASTM D445

Storage and Handling

Advice on the storage and handling of NEODOL alcohols can be found in the Safety Data Sheet on our website at www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets or by contacting your local Shell Chemicals Representative.

Hazard Identification

NEODOL alcohols exhibit low oral, skin and respiratory toxicity. Generally, these alcohols are slightly to moderately irritating to the eyes and skin. Prolonged or repeated skin contact with undiluted alcohols may lead to defatting of the skin and ultimately cause dermatitis.

Emergency Helpline

For emergency telephone numbers refer to the Safety Data Sheet relevant for your company's country and language.

Shell Warranties

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