



NEODOL™ 5

TECHNICAL DATASHEET

Primary Alcohol

Updated: January 2021
SICC Product Code: V2369

Description:

- NEODOL 5 is a C15 high purity, lightly branched, primary alcohol manufactured using the Shell Hydroformylation (SHF) process. It can be used in a variety of applications, but it is primarily used for the manufacture of alcohol ethoxylates and alcohol ethoxysulfates. NEODOL 5 alcohol biodegrades fast, as measured in the OECD 301 test.

Typical Chemical Properties ^a	Property	Unit	Value	Method
	C13 & Lower Alcohols	%m/m	< 2	SMS 2914
	C14 Alcohols	%m/m	< 10	SMS 2914
	C15 Alcohols	%m/m	> 90	SMS 2914
	C16 & Higher Alcohols	%m/m	< 3	SMS 2914
	Total Hydrocarbons	%m/m	< 0.5	SMS 2914
	Normality	%m/m	> 75	SMS 2914
	Hydroxyl Number	mgKOH/g	241 – 251	SMS 2914
	Molecular Mass	g/mol	223 – 233	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 @ 40°C	kg/l	0.842	ASTM D4052
	Flashpoint	°C	149	ASTM D56/D92/D93
	Pour Point	°C	38	ASTM D97
	Kinematic Viscosity @ 40°C	mm ² /s	15	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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