



# NEODOL™ 135

## TECHNICAL DATASHEET

Primary Alcohol

Updated: January 2022

SICC Product Code: V2483

### Description:

- NEODOL 135 is a blend of C11, C13 and C15 high purity, lightly branched, primary alcohols 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. The sulfates of NEODOL 135 are highly suited for use in household laundry detergents.

Typical Chemical Properties <sup>a</sup>	Property	Unit	Value	Method
	C10 & Lower Alcohols	%m/m	< 0.5	SMS 2914
	C11 Alcohols	%m/m	14	SMS 2914
	C12 Alcohols	%m/m	<2	SMS 2914
	C13 Alcohols	%m/m	43	SMS 2914
	C14 Alcohols	%m/m	< 2.0	SMS 2914
	C15 Alcohols	%m/m	43	SMS 2914
	C16 & Higher Alcohols	%m/m	< 0.5	SMS 2914
	Total Hydrocarbons	%m/m	< 0.5	SMS 2914
	Normality	%m/m	> 75	SMS 2914
	Hydroxyl Number	mgKOH/g	267 – 276	SMS 2914
	Molecular Mass	g/mol	203- 210	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 <sup>b</sup>	Visual

<sup>a</sup>: Clear & Substantially free of visible impurities

Typical Physical Properties	Property	Unit	Value	Method
	Density @ 40°C	kg/L	0.822	ASTM D4052
	Flashpoint	°C	143	ASTM D56/D92/D93
	Pour Point	°C	24	ASTM D5949/D97
	Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	15	ASTM D445

## Storage and Handling

Advice on the storage and handling of NEODOL linear 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](http://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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