



NEODOL™ 135-3

TECHNICAL DATASHEET

Primary Alcohol Ethoxylate

Updated: JANUARY 2022

SICC Product Code: V2502

Description:

- NEODOL 135-3 is a blend of C11/C13/C15 high purity, lightly branched, primary alcohols with an average of approximately 3 moles of ethylene oxide per mole of alcohol.

Typical Chemical Properties ^a	Property	Unit	Value	Method
	Hydroxyl Number	mg KOH/g	166 - 172	SMS 1848
	Molecular Mass	g/mol	326 - 338	SMS 1848
	Color, Pt-Co		< 30	ASTM D1209
	Water	%m/m	< 0.1	ASTM E1064
	Ash	%m/m	< 0.2	ASTM D482
	Polyethylene Glycol	%m/m	< 1	SMS 1528
	Appearance		LCSH ^a	Visual
	Acid Number	mg KOH/g	0.05 - 0.20	SMS 2912
	EO/Alcohol Mole Ratio		2.7 - 3.0	SMS 1848
	Residual EO	mg/kg	< 6	SMS 2957
	1,4 - Dioxane	mg/kg	< 1 ^b	SCG 893

a: Liquid, Clear to Slightly Hazy

b: Method Detection Limit 0.3 mg/kg

c: Typical Value by water titration

Typical Physical Properties	Property	Unit	Value	Method
	Density @ 40°C	kg/l	0.91	ASTM D4052
	Cloud Point	ml H ₂ O	32°	SMS 1664
	Flashpoint	°C	161	ASTM D56/D92/D93
	Pour Point	°C	5	ASTM D5949/D97
	HLB	Number	7.5	Griffin's Method (1954)
	Kinematic Viscosity @ 40°C	mm ² /s	17	ASTM D445

Storage and Handling

Advice on the storage and handling of NEODOL alcohol ethoxylates 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 alcohol ethoxylates 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.

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