



NEODOL™ 135-1

TECHNICAL DATASHEET

Primary Alcohol Ethoxylate

Updated: JANUARY 2022
SICC Product Code: V2751

Description:

- NEODOL 135-1 is a blend of C11/C13/C15 high purity, lightly branched, primary alcohols with an average of approximately 1 mole of ethylene oxide per mole of alcohol.

Typical Chemical Properties ^a	Property	Unit	Value	Method
	Hydroxyl Number	mg KOH/g	219-229	SMS 2914
	Molecular Mass	g/mol	240-260	SMS 2914
	Color	Pt-Co	< 30	SMS 2914
	Water	%m/m	< 0.1	SMS 2914
	Ash	%m/m	< 0.2	ASTM D1209
	Polyethylene Glycol	%m/m	< 1	SMS 2097
	Appearance	Visual	LCSH ^a	SMS 2912
	Acid Number	mg KOH/g	0.05 - 0.20	ASTM E1064
	EO/Alcohol Mole Ratio	mol/mol	0.9-1.1	SMS 2914
	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

Typical Physical Properties	Property	Unit	Value	Method
	Density @ 40°C	kg/l	0.86	ASTM D4052
	Cloud Point	ml H ₂ O	10	SMS 1664
	Flashpoint	°C	146	ASTM D56/D92/D93
	Pour Point	°C	13	ASTM D5949/D97
	HLB	Number	3.5	Griffin's Method (1954)
	Kinematic Viscosity @ 40°C	mm ² /s	12	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.

Shell Warranties

The expression 'Shell Chemicals' refers to the companies of Royal Dutch /Shell Group which are engaged in chemical businesses. Each of the companies which make up the Royal Dutch / Shell Group of companies is an independent entity and has its own separate identity.

The information contained in this publication is to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

NEODOL is a Shell trademark.