



NEODOL™ 91-8

TECHNICAL DATASHEET

Primary Alcohol Ethoxylate

Updated: November 2020
SICC Product Code: V2462

Description:

- NEODOL 91-8 is a blend of C9, C10, and C11 high purity, lightly branched, primary alcohols with an average of approximately 8 moles of ethylene oxide per mole of alcohol. NEODOL 91-8 alcohol ethoxylate biodegrades fast, as measured in the OECD 301 test.

Typical Chemical Properties ^a	Property	Unit	Value	Method
	Hydroxyl Number	mg KOH/g	105 - 115	SMS 1848
	Molecular Mass	g/mol	488 - 534	SMS 1848
	Color, Pt-Co		< 50	ASTM D1209
	Water	%m/m	< 0.1	ASTM E1064
	Ash	%m/m	< 0.2	ASTM D482
	Polyethylene Glycol	%m/m	< 2	SMS 1528
	Appearance		LCSH ^b	Visual
	Acid Number	mg KOH/g	0.05 - 0.20	SMS 2912
	EO/Alcohol Mole Ratio		7.4 - 8.5	SMS 1848
	Residual EO	mg/kg	< 6	SMS 2957
	1,4 - Dioxane	mg/kg	< 1 ^c	Headspace GC-FID

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

b: liquid, Clear to Slightly Hazy

c: Method Detection Limit 0.3 mg/kg

d: Typical Value as a 1% solution in Water

Typical Physical Properties	Property	Unit	Value	Method
	Density @ 40°C	kg/l	0.996	ASTM D4052
	Cloud Point	°C	81 ^d	SMS 1664
	Flashpoint	°C	160	ASTM D56/D92/D93
	Pour Point	°C	16	ASTM D5949/D97
	HLB	Number	13.7	Griffin's Method (1954)
	Kinematic Viscosity @ 40°C	mm ² /s	27	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.