



Shell NEODOL® 135-3

TECHNICAL DATASHEET

SICC Product Code: V2502

CAS Registry Number: 68002-97-1

Description

Shell 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. Shell NEODOL® 135-3 is readily biodegradable, determined through OECD 301F testing (> 60 % degradation in 28-days).

Typical Chemical Properties – Shell NEODOL® 135-3

Property	Unit	Value	Method ^a
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 ^b	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 ^c	SCG 893

Notes:

a: SMS -Shell Method Series

b: Liquid, Clear to Slightly Hazy

c. Method Detection Limit 0.02 mg/kg

d: Typical Value by water titration



Typical Physical Properties – Shell NEODOL® 135-3

Property	Unit	Value	Method
Density @ 40°C	kg/l	0.908	ASTM D4052
Cloud Point	ml H ₂ O	32 ^d	SMS 1664
Flash Point	°C	154	ASTM D56/D92/D93
Pour Point	°C	5	ASTM D5949/D97
HLB	Number	7.5	Griffin's Method (1954)
Kinematic Viscosity @ 20°C	mm ² /s	38	ASTM D445

Test Methods

Copies of copyrighted test methods can be obtained from the issuing organizations:

- American Society for Testing and Materials (ASTM)

Shell Method Series (SMS) methods are issued by Shell Global Solutions International B.V., Shell Technology Centre, Amsterdam, The Netherlands. Requests for copies of SMS can be made through your local Shell Chemicals company.

N.B: For routine quality control local test methods may be applied. Such methods have been validated against those mentioned in this datasheet.

Hazard Information

Shell 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. For detailed Hazard Information please refer to the Safety Data Sheet.

Access Safety Data Sheets here: [Safety Data Sheets](#)

Storage and Handling

Advice on the storage and handling of Shell NEODOL® alcohol ethoxylates can be found on our web site at www.shell.com or by contacting your local Shell Chemicals representative.



Shell Chemicals

Shell Warranties

All products purchased or supplied by Shell chemicals companies are subject to the terms and conditions set out in the contract, order confirmation and/or bill of lading. All other information supplied by Shell chemicals companies, including that herein, is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine a product's suitability for a particular purpose. Except as may be set forth in the applicable contract, order confirmation and/or bill of lading, Shell chemicals companies make no warranty, express or implied, including regarding any information supplied or the data upon which it is based or the results to be obtained from the use of such products or information, or concerning product, whether of satisfactory quality, merchantability, fitness for any particular purpose or otherwise, or with respect to intellectual property infringement as a result of use of information or products, and none shall be implied.

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

Learn more at www.shell.com/chemicals