



Shell Chemicals

Shell NEODENE® 14/16

TECHNICAL DATASHEET

SICC Product Code: V1161

CAS Registry Number: 1120-36-1

Description

Shell NEODENE® 14/16 Linear Alpha Olefin is a 2:1 blend of a high purity 1-tetradecene and 1-hexadecene made by the Shell Higher Process (SHOP) by the oligomerization of ethylene.

Typical Chemical Properties – Shell NEODENE® 14/16

Property	Unit	Value	Method ^a
C12 and lower	%m/m	< 2	SMS 2895
C14	%m/m	60 - 70	SMS 2895
C16	%m/m	30 - 40	SMS 2895
C18 and higher	%m/m	< 2	SMS 2895
Total n-Alpha Olefins	%m/m	> 94	SMS 2895
Total Branched Olefins	%m/m	< 4.5	SMS 2895
Total Internal Olefins	%m/m	< 2.5	SMS 2895
Total Paraffins	%m/m	< 0.2	SMS 2895
Appearance	-	CSFVI ^b	Visual
Color, Pt-Co	-	< 5	ASTM D1209
Water	mg/kg	< 100	ASTM E1064
Carbonyl as C=O	mg/kg	< 15	SMS2894
Peroxides as O	mg/kg	< 3	SMS359

Notes:

a: SMS -Shell Method Series

b: Clear & Substantially free of visual impurities

**Typical Physical Properties – Shell NEODENE® 14/16**

Property	Unit	Value	Method
Density @ 20°C	kg/m ³	778	ASTM D4052
Boiling Point Range	°C	238 - 289	-
Flash Point	°C	110	ASTM D7236
Freezing Point	°C	-9	-
Kinematic Viscosity @ 20°C	mm ² /s	3	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

Alpha Olefins are potentially hazardous; everyone concerned with handling it must be conversant with the nature of the hazards and trained in the recommended handling procedures for both normal and emergency situations. Before handling the product, refer to the Safety Data Sheet.

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

Storage and Handling

Shell NEODENE® Alpha Olefins can be supplied with or without antioxidant as requested. Advice on the storage and handling of NEODENE® and SHOP Linear Alpha Olefins can be found on our web site at www.shell.com or by contacting your local Shell Chemicals representative.

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.



Shell Chemicals

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