



Shell Chemicals

Shell NEODENE® 2024

TECHNICAL DATASHEET

SICC Product Code: V1245

CAS Registry Number: 93924-10-8

Description

Shell NEODENE® 2024 Linear Alpha Olefin contains high purity C20, C22, and C24 alpha olefins made by the Shell Higher Process (SHOP) by the oligomerization of ethylene.

Typical Chemical Properties – Shell NEODENE® 2024

Property	Unit	Value	Method ^a
C18 and lower	%m/m	< 7	SMS 2895
C20	%m/m	> 50	SMS 2895
C22	%m/m	< 50	SMS 2895
C24	%m/m	< 10	SMS 2895
C26 and higher	%m/m	< 3	SMS 2895
Total n-Alpha Olefins	%m/m	> 90	SMS 2895
Total Branched Olefins	%m/m	< 7	SMS 2895
Total Internal Olefins	%m/m	< 3	SMS 2895
Total Paraffins	%m/m	< 0.2	SMS 2895
Appearance	-	CSFVI ^b	Visual
Color, Pt-Co	-	< 15	ASTM D1209
Carbonyl as C=O	mg/kg	< 15	SMS2894
Peroxides as O	mg/kg	< 3	SMS359
Water	mg/kg	< 100	ASTM E1064

Notes:

a: SMS -Shell Method Series

b: Clear & Substantially free of visual impurities

Typical Physical Properties – Shell NEODENE® 2024

Property	Unit	Value	Method
Density @ 30°C	kg/m ³	783 - 793	ASTM D4052
Boiling Point Range	°C	349-374	-
Flashpoint	°C	172 - 183	-
Freezing Point	°C	29	-
Kinematic Viscosity @ 40°C	mm ² /s	5.1	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® and SHOP Alpha Olefins are normally supplied containing antioxidant unless requested otherwise. 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.

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