

INEOS Oligomers

Alpha Olefin C1416

Alpha Olefin C1416, a blend of 1-Tetradecene and 1-Hexadecene, produced by INEOS Oligomers is a clear mobile liquid at room temperature.

Applications

Alpha Olefin C1416 is used in offshore drilling as a synthetic olefin low viscosity fluid, a base component in formulations designed to improve the performance, lubricity and wellbore stability expected from conventional mineral oil-based muds. Alpha Olefin C1416 is a blend of biodegradable and low toxicity olefin components; it may be an acceptable fluid for environmentally regulated regions.

Alpha Olefin C1416 is also used in the surfactants and detergents industry.

Typical Properties¹

Carbon Number, wt% (by GC)

C12	<1
C14	65
C16	33
C20	<u>1</u>
	100

Hydrocarbon Type, wt% (by GC)

Monoolefin	99.5
Paraffin	<u>0.5</u>
	100.0

Olefin Isomers, mole% by (NMR)

Linear terminal	73
Branched terminal	20
Linear internal	<u>7</u>
	100

Other Properties

Color, APHA	10
Density at 20 °C, g/mL	0.779
Density at 60 °F, lbs/gal	6.50
Pour Point, °C	-12
Flash Point, °C, (ASTM D 93)	114
Kinematic Viscosity, cSt @ 40 °C	2.09

¹Typical properties will vary within specification limits.

Transportation Mode

Alpha Olefin C1416 is stored under a nitrogen blanket. It is not corrosive to steel or aluminum. Contact with air, water or oxygen should be avoided because olefins are sensitive to moisture and auto-oxidation which form impurities that can interface with subsequent reactions. Olefins should be handled under a dry, inert gas atmosphere. As with all hydrocarbons, olefins can form explosive mixtures with air or oxygen in certain concentrations.

Alpha Olefin C1416 is available in rail tank cars, tank trailers, marine vessels and isotanks. Alpha Olefin C1416 is available in drums on special order.

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