

INEOS Oligomers

1-Hexadecene (Alpha Olefin C16)

1-Hexadecene is produced by Ineos Oligomers using a modified Ziegler ethylene chain growth technology. The product is a clear water white, mobile liquid at room temperature.

Applications

1-Hexadecene enters into all reactions typical of alpha olefins. It can be used in the production of amines and amine oxides, oxo alcohols, alkylated aromatics, alpha olefin sulfonates, alkyl succinic anhydrides, drilling fluids, epoxides and synthetic fatty acids.

Typical Properties¹

Carbon Number, wt% (by GC)

<C16	<2
C16	97
>C16	<2
	<hr/>
	100

Hydrocarbon Type, wt% (by GC)

Monoolefin	99.5
Paraffin	0.5
	<hr/>
	100.0

Other Properties

Color, APHA	10
Density at 20 °C, g/mL	0.785
Density at 68 °F, lbs/gal	6.55
Pour Point, °C	2
Flash Point, °C, (ASTM D 93)	125
Boiling Range, °C, (5%-95%)	270-300

¹Typical properties will vary within specification limits.

Transportation Mode

1-Hexadecene 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.

1-Hexadecene is available in rail tank cars, tank trailers, marine vessels and isotanks. 1-Hexadecene is available in drums on special order.

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