

INEOS Oligomers

1-Tetradecene (Alpha Olefin C14)

1-Tetradecene, a clear water-white, mobile liquid, is produced by Ineos Oligomers by using a modified Ziegler ethylene chain growth technology. The product is 99+% olefinic.

Applications

1-Tetradecene enters into all reactions typical of alpha olefins. 1-Tetradecene can be used in the production of amines and amine oxides, oxo alcohols, alkylated aromatics, alpha olefin sulfonates, epoxides, tanning oils and synthetic fatty acids.

Typical Properties¹

Carbon Number, wt% (by GC)

C ₁₂	0.9
C ₁₄	98.1
C ₁₆	<u>1.0</u>
	100.0

Hydrocarbon Type, wt% (by GC)

Monoolefin	99.3
Paraffin	<u>0.7</u>
	100.0

Other Properties

Color, APHA	5
Density at 20 °C, g/mL	0.771
Density at 68 °F, lbs/gal	6.43
Pour Point, °C	-18
Flash Point, °C, (ASTM D 93)	104
Boiling Range, °C, (5%-95%)	246-253

¹Typical properties will vary within specification limits.

Transportation Mode

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

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

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