

# INEOS Oligomers

## Alpha Olefin C1214

Alpha olefin C1214, a blend of 1-Dodecene and 1-Tetradecene, is produced by Ineos Oligomers by using a modified Ziegler ethylene chain growth technology. The mixture is a clear water white, mobile liquid at room temperature.

### Applications

Alpha Olefin C1214 enters into all reactions typical of alpha olefins. C1214 can be used in the production of amines and amine oxides, oxo alcohols, alkylated aromatics, epoxides and synthetic fatty acids.

### Typical Properties<sup>1</sup>

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#### Carbon Number, wt% (by GC)

C10	<1
C12	66
C14	33
C16	<u>&lt;1</u>
	100

#### Hydrocarbon Type, wt% (by GC)

Monoolefin	99.7
Paraffin	<u>0.3</u>
	100.0

#### Olefin Isomers, mole% by (NMR)

Linear terminal	86.5
Branched terminal	9.5
Linear internal	<u>4.0</u>
	100.0

#### Other Properties

Color, APHA	10
Density at 20 °C, g/mL	0.762
Density at 68 °F, lbs/gal	6.36
Pour Point, °C	-35
Flash Point, °C, (ASTM D 56)	81
Boiling Range, °C, (5%-95%)	217-250

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<sup>1</sup>Typical properties will vary within specification limits.

### Transportation Mode

Alpha olefin C1214 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 C1214 is available in rail tank cars, tank trailers, marine vessels and isotanks. Alpha Olefin C1214 is available in drums on special order.

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