

INEOS Oligomers

Isomerized C1618 Alpha Olefin (C1618 IO)

C1618 IO produced by INEOS Oligomers is a clear mobile liquid at room temperature.

Applications

C1618 IO is primarily used in ASA production for paper sizing applications, in biodegradable drilling fluids formulations, additives, and specialty chemicals.

Typical Properties¹

Carbon Number, wt% (by GC)

C14	1
C16	57
C18	37
C20	<u>5</u>
	100

Hydrocarbon Type, wt% (by GC)

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

Olefin Isomers, mole% by (NMR)

Linear terminal	3
Branched terminal	2
Total internal olefins	<u>95</u>
	100

Other Properties

Color, APHA	20
Density at 20 °C, g/mL	0.787
Density at 68 °F, lbs/gal	6.57
Pour Point, °C	-15
Flash Point, °C, (ASTM D 93)	135
Boiling Range, °C, (5%-95%)	288-313

¹Typical properties will vary within specification limits.

Transportation Mode

C1618 IO 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.

C1618 IO is available in rail tank cars, tank trailers, marine vessels and isotanks. C1618 IO is available in drums on special order.

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