

INEOS Oligomers

Isomerized C18 Alpha Olefin (C18 IO)

C18 IO is produced by Ineos Oligomers from C18 alpha olefin. It is a clear mobile liquid at room temperature.

Applications

C18 IO is primarily used in ASA production for paper sizing applications, biodegradable fluids formulations, additives and specialty chemicals.

Typical Properties¹

Carbon Number, wt% (by GC)

<C18	3
C18	92
>C18	5
	<hr/> 100

Hydrocarbon Type, wt% (by GC)

Monoolefin	99.4
Paraffin	0.6
	<hr/> 100.0

Olefin Isomers, mole% by (NMR)

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

Other Properties

Color, APHA	10
Density at 20 °C, g/mL	0.790
Density at 68 °F, lbs/gal	6.59
Pour Point, °C	-6
Flash Point, °C, (ASTM D 93)	155
Kinematic Viscosity, cSt @ 40 °C	3.6
Boiling Range, °C, (5%-95%)	278-305

¹Typical properties will vary within specification limits.

Transportation Mode

C18 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.

C18 IO is available in rail tank cars, tank trailers, marine vessels and iso containers. C18 IO is available in drums on special order.

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