

INEOS Oligomers

Alpha Olefin C2024

Alpha Olefin C2024, an ethylene low molecular weight polymer, is produced by INEOS Oligomers by using a modified Ziegler ethylene chain growth technology. The olefin mixture is a clear water-white, mobile liquid above its melting point.

Applications

Alpha Olefin C2024 undergoes all reactions typical of alpha olefins. Alpha Olefin C2024 can be used in the production of oxo alcohols, alkylated aromatics, alpha olefin sulfonates, epoxides, tanning oils, synthetic fatty acids and biodegradable fluids.

Typical Properties¹

Carbon Number, wt% (by GC)

<C ₂₀	2
C ₂₀	46
C ₂₂	28
C ₂₄	16
>C ₂₄	<u>8</u>
	100

Hydrocarbon Type, wt% (by GC)

Monoolefin	99
Paraffin	<u><1</u>
	100

Olefin Isomers, mole% by (NMR)

Linear terminal	47
Branched terminal	43
Linear internal	<u>10</u>
	100

Other Properties

Color, APHA	10
Pour Point, °C	20
Flash Point, °C, (ASTM D 93)	180
Density at 20°C, g/mL	0.805
Density at 68°F, lbs/gal	6.72
Boiling Range, °C, (5%-95%)	343-384

¹Typical properties will vary within specification limits.

Transportation Mode

Alpha Olefin C2024 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.

Alpha Olefin C2024 is available in rail tank cars, tank trailers, marine vessels and iso-containers.

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