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TECHNICAL DATA SHEET

Ref.name: T/LAO_C6
Rev.no: 01
Date: 22-12-2015

LAO C6 (1-HEXENE)

PRESENTATION:

Linear Alpha Olefins (LAO) are olefins (alkenes) with the formula C_xH_{2x} . Unlike other linear olefins with the same formula the LAO's have their double bond position at the primary carbon or alpha position. LAO C6 is C_6C_{12} with the chemical name 1-Hexene.

APPLICATIONS:

LAO C6 1-hexene is used as a co-monomer in co-polymerization reactions with, for example, ethylene. Another application is the production of hexanaldehyde by oxidation. A third possibility is to extend the carbon chain with carbon monoxide by carrying out a hydroformylation reaction to produce heptanoic acid..

TYPICAL PROPERTIES

PROPERTY	UNIT	TYPICAL	TEST METHOD
Appearance		Clear & Bright	Visual
Density at 15 °C	g/cm ³	0.68	ASTM D 4052*
Carbon number C6	% wt	99.99	GC*
Benzene	mg/kg	< 0.2	GC*
Paraffin content	% wt	0.13	GC*
Color Saybolt		+ 30	ASTM D 156*
Water	mg/kg	14	ASTM D 1364*
Peroxide	mg/kg	< 1	ASTM D 3703*
Carbonyls	mg/kg	< 1	ASTM E 411

*or equivalent method

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