

# Technical Data Sheet

## Eastman™ 2-Ethylhexanol

### Applications

- Adhesives/sealants-b&c
- Agriculture intermediates
- Architectural coatings
- Auto oem
- Auto refinish
- Automotive parts & accessories
- Building materials
- Construction chemicals
- Diesel imed
- Equipment & machinery
- Gasoline intermediates
- General industrial coatings
- Graphic arts
- Herbicides - intermediate for 2,4-d
- Herbicides - intermediate for other
- Industrial fuel imeds
- Lubricants
- Marine
- Paints & coatings
- Pipe non-food contact
- Plasticizer
- Process solvents
- Protective coatings
- Soap/detergents
- Wetting agent
- Wood coatings

### Key Attributes

- Defoaming, wetting, and dispersing characteristics
- Excellent reactivity as an intermediate
- Improves flow and gloss in baking finishes
- Inert - Food use with limitations
- Inert - Nonfood use
- Inherently biodegradable
- Non-HAP
- Non-SARA
- REACH compliant
- Slow evaporation rate
- Very low water miscibility

### Product Description

Eastman™ 2-Ethylhexanol is an eight-carbon branched chain oxo alcohol having a high boiling point and slow evaporation rate. It is a versatile solvent featuring excellent reactivity as a chemical intermediate. It serves as a chain terminator in synthesizing condensation polymers and as an intermediate for plasticizers. Eastman™ 2-Ethylhexanol has low volatility and enhances the flow and gloss of baking enamels. It is also used as dispersing agent for pigment pastes.

The chemical substances for this product are listed as Inert Ingredients Permitted for Use in Nonfood Use Pesticide Products, and in Food Use Pesticide Products with limitations, under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). For details on specific permissions, [click here](#).

### Typical Properties

Property	Typical Value, Units
<b>General</b>	
Acidity	
as Acetic Acid	0.01 wt % max.
Assay	99.6 wt % min.
Autoignition Temperature	288 °C (550 °F)
Azeotropes	
BP	99.1 °C (210.4 °F)
	80 wt %

Wt % Water	
Boiling Point @ 760 mm Hg	182-186 °C (360-367 °F)
Color Pt-Co	5 max.
Critical Pressure	27 ATM
Critical Temperature	367 °C
Critical Volume	485 ml/g·mol
Electrical Resistance	>20 Megohms
Empirical Formula	C <sub>8</sub> H <sub>18</sub> O
Evaporation Rate (ether = 1) (n-butyl acetate = 1)	1210.2 0.01
Expansion Coefficient, per °C @ 20°C	0.00088
Flash Point Tag Closed Cup	73 °C (164 °F)
Freezing Point	-70 °C (-94 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	5.8
Nonpolar	7.8
Polar	1.6
Total	9.9
Heat of Combustion	-1169 kcal/g·mol
Heat of Vaporization	11220 cal/g·mol
Liquid Heat Capacity @ 25°C	75.43 cal/(g·mol)(°C)
Liquid Viscosity @ 25°C	7.7 cP (mPa·s)
Molecular Weight	130.2
Nitrocellulose Solubility	Latent
Refractive Index @ 20°C	1.43
Solubility in Water, @ 20°C Water in, @ 20°C	0.1 wt % 2.6 wt %
Specific Gravity @ 20°C/20°C	0.83
Surface Tension @ 20°C	28.7 dynes/cm
Vapor Density (air = 1)	4.5
Vapor Pressure @ 20°C @ 55°C	0.05 mm Hg 0.26 kPa
Viscosity, Neat @ 24°C	7.7 mPa·s
Wt/Vol @ 20°C	0.83 kg/L (6.94 lb/gal)

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