EASTMAN

Product Data Sheet

Eastman™ DOA Plasticizer

Application/Uses

- Food contact

Product Description

Eastman™ DOA plasticizer (Bis(2-Ethylhexyl) Adipate) is a light colored, oily liquid generally used as a plasticizer for PVC. It can be used alone or blended with other plasticizers, such as DOP or DOTP. In PVC, Eastman™ DOA features flexibility at low temperatures, good electrical properties, good resistance to weathering, and good stability to heat. Eastman™ DOA is used to produce clear films for food packaging applications. In addition to PVC, Eastman™ DOA is compatible with nitrocellulose, ethyl cellulose, most synthetic rubbers, and high-butyryl cellulose acetate butyrates.

Typical Properties

Property	Typical Value, Units
Molecular Weight	370
Empirical Formula	$C_{22}H_{42}O_4$
Form	Liquid
Refractive Index	1.4472 n(25°C/D)
Specific Gravity @ 20°C/20°C	0.927
Wt/Vol @ 20°C	0.924 kg/L (7.71 lb/gal)
Boiling Point @ 760 mm Hg	417°C
Freezing Point	<-70°C
Solubility in Water, @ 25°C	<0.01 g/L
Viscosity	
@ -17.8°C (0°F)	113 cP
@ 0°C	36.5 cP
@ 25°C	13 cP
@ 100°C	2.5 cP
Acidity as Phthalic Acid	0.02 wt % max.
Flash Point Cleveland Open Cup	206°C (402°F)
Color Pt-Co	10 max.
Assay	99.0 wt % min.

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.