Technical Data Sheet

Dioctyl phthalate (DOP)

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Product Description

Dioctyl phthalate (DOP), known as Bis(2-Ethylhexyl) Phthalate, is a clear, colorless oily liquid with no odor. It is a low-volatility plasticizer used primarily for PVC compounding. DOP is insoluble in water but mixes easily with organic solvents like alcohol and hexane. It offers good stability against heat, UV light, and hydrolysis. DOP is suitable for flexible plastic applications.

Application Areas

- Increasing flexibility in PVC compounds
- Screen printing inks, paints, coatings

Benefits

- Cost-effective general-purpose plasticizer for PVC
- Low volatility – minimal loss during processing and service life
- Excellent heat and UV stability for durable end products
- Good electrical properties – high volume resistivity for wire & cable applications

Standard Packaging

- 200 kg per Drum

Health and Safety data

For safe handling, please refer to the Safety Data Sheet. For more information about health and environmental data, please contact local regulators.

Product Specification

Property	Unit	Value	Test Method/Standard
Appearance	-	Colorless liquid	Visual
Color	APHA	Max. 30	ASTM D1209
Viscosity at 25°C	mPa.s	60 – 90	ASTM D445
Specific Gravity at 25°C	g/cm^3	0.986 ± 0.003	ASTM D792
Acid value	mg KOH/g	Max. 0.3	ASTM D1639
Purity	-	Min. 99.5	GC
Refractive Index at 25°C	-	1.485 ± 0.003	ASTM D1045
Moisture Content	%	Max. 0.05	ASTM E203

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