

Diethyl Phthalate



Safety (MSDS) data

This product is from a Valetime Integrated Source

GENERAL

CAS	117-81-7
EC-Number	204-211-0
Synonyms	DOP, bis-(2-ethylhexyl) phthalate, phthalic acid bis(2-ethylhexyl) ester, 1,2-benzenecarboxylic acid dioctyl ester, DEHP, phthalic acid dioctyl ester, diethylhexyl phthalate.
Molecular formula	$C_{24}H_{38}O_4$
Structural formula	$C_6H_4(COOCH_2CH(C_2H_5)C_4H_9)_2$
Use	Plasticizer for PVC and other resins. Flexible PVC industry – flooring, wire & cables, shoes, cars, pipe, tubes, profiles. Liquid used in vacuum pumps. Dielectric fluid. Permitted component in food packaging material.

PHYSICAL DATA

Appearance	Viscous liquid, colourless or slightly yellow, with characteristic odour	
Melting Point	-55 °C	(Specification: -50 °C)
Boiling Point	165 °C	(Specification: 386 °C)
Specific gravity	0.9861	
Flash point	215 °C	
Viscosity	0.4 poise	
Refractive index	1.4848	

STABILITY

Stable.
Incompatible with strong oxidising agents.
Flammable.

TOXICOLOGY

May be harmful by inhalation, ingestion or skin absorption. Laboratory evidence suggests that high doses during pregnancy may reduce birth weight of lab animals. **May have toxic effects on embryo or fetus. Possible carcinogen.** Skin, eye and respiratory irritant. Typical occupational TLV 3mg/m³.

Toxicity data RAT-ORL LD50 31000 mg kg⁻¹

ENVIRONMENTAL INFORMATION

Biodegrades in water with a half life of 2-3 weeks.

PERSONAL PROTECTION

Safety glasses. Adequate ventilation.

Disclaimer for Specifications

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