

Diethyl Oxalate

Technical Data Sheet



Product Identification	Chemical Name	Diethyl Oxalate
	Chemical Abstracts Registry No.	95-92-1
	Molecular Formula	C ₆ H ₁₀ O ₄
	Molecular Weight	146.14

Specifications	<u>Property</u>	<u>Specification</u>
	Appearance	Clear colorless liquid
	Assay, %	99.0 minimum
	Acidity, as Oxalic, wt %	0.05 maximum
	Specific Gravity @ 20/20° C	1.075 - 1.083
	Refractive Index @ 25° C/D	1.4080 – 1.4090
	Color, APHA	20 maximum
	Odor	Mild, characteristic
	Moisture (K-F), %	0.10 maximum

Physical Properties	<u>Property</u>	<u>Value</u>
	Physical State	Oily Liquid
	Pounds per gallon	9.00
	Melting Point, °C	-38.5
	Boiling Point, °C	185.7°C @ 760 mm Hg
	Flash Point, C.O.C., °F	165
	Distillation Range, °C	180 - 190
	Vapor Pressure	1.0 mm Hg @ 47°C
	Vapor Density	5.04

Applications Diethyl Oxalate is a chemical intermediate used in the manufacture of compounds such as Phenobarbital and various dyes. It is a solvent for a number of synthetic and natural resins. There are some specialty applications as a solvent in nitrocellulose lacquers.

Diethyl Oxalate is miscible with alcohols, ether and other common organic solvents. While slightly soluble in water, decomposition ensues. Precautions must be taken to prevent contact with moisture during storage and handling.

Oxalates are toxic. Protection equipment should be used to avoid skin and eye contact, breathing of fumes or ingestion. In case of contact, flush skin and eyes with plenty of water for at least 15 minutes. Call a physician.

For toxicity or regulatory information please consult the Material Safety Data Sheet.

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Vertellus Performance Materials Inc., 2110 High Point Road, Greensboro, NC 27403 USA

USA Tel: 800-227-2436

USA Fax: 336-854-4058

USA Email: VPM-TechServices@vertellus.com

Web: www.vertellus.com