



ECO ORGANICS

An ISO 9001 : 2008 Certified Company

- Flavours
- Fragrances
- Ingredients

TECHNICAL DATA SHEET

GLYCIDOL

CAUTION: Category 1B Carcinogen / Reproductive Toxicant – see accompanying MSDS before handling.

Product Name	Glycidol
Chemical Name	Oxiranylmethanol (2,3-Epoxy-1-propanol)
Synonyms	Glycidol; Oxiranemethanol; 2,3-Epoxypropan-1-ol
CAS No.	556-52-5
MDL No.	MFCD00005147
HSN Code	29420090
Molecular Formula	C ₃ H ₆ O ₂
Molecular Weight	74.08 g/mol
Appearance	Colorless to slightly yellow, transparent liquid
Assay (Purity)	>97.0% (by GC)
Specific Gravity (20°C)	1.1 - 1.2
Water Content (K.F.)	<1% (W/V)
Refractive Index (20°C)	Approx. 1.433 (literature)
Melting Point	Approx. -54°C (literature)
Boiling Point	Approx. 167°C at atmospheric pressure (decomposes); 61 - 62°C @ 15 mmHg reduced pressure (literature)
Flash Point	Approx. 66°C, Closed Cup (literature – some sources report up to ~81°C; verify with supplier SDS)
Vapour Pressure	Approx. 0.9 mmHg @ 25°C (literature)
Solubility in Water	Miscible
Stability	Sensitive to moisture and light. May polymerize if heated above room temperature or on prolonged storage. Decomposes on contact with strong acids, strong bases, or metal salts.
Storage Condition	STORE REFRIGERATED at -2°C to 2°C, in a tightly closed, light-protected container, away from moisture, heat, and incompatible materials
Packing	As per customer requirement – typically supplied in small batch/sample lots given cold-chain storage requirement
Application	Chemical intermediate for glycidyl ethers, esters, and amines; stabilizer for vinyl polymers and natural oils; pharmaceutical/chiral synthesis intermediate. See MSDS – this material carries a Category 1B carcinogen and reproductive toxicant classification.

Note: Values marked “(literature)” are typical published physical constants; all other values are per the Certificate of Analysis for this batch or the supplier's in-house specification.

Date: 11 August, 2026

Authorized Signatory



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For Eco Organics

Partner

(Company Seal)