



ECO ORGANICS

An ISO 9001 : 2008 Certified Company

- Flavours
- Fragrances
- Ingredients

TECHNICAL DATA SHEET

(R)-(+)-GLYCIDOL

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

Product Name	(R)-(+)-Glycidol
Chemical Name	(R)-Oxiranylmethanol
Synonyms	(R)-Glycidol; (R)-2,3-Epoxy-1-propanol; (R)-(+)-2,3-Epoxy-1-propanol
CAS No.	57044-25-4
MDL No.	MFCD00074873
HSN Code	29103000
Molecular Formula	C3H6O2
Molecular Weight	74.08 g/mol
Chirality	Single enantiomer, (R)-configuration; typical optical purity ≥99% (S-Isomer <1%)
Appearance	Colorless to slightly yellow, transparent liquid
Assay (Purity)	>98.0% (by GC)
Specific Optical Rotation (20°C, Neat)	+13.0° to +18.0°
Water Content (K.F.)	<1% (W/V)
Refractive Index (20°C)	Approx. 1.433 (literature – racemic glycidol; enantiomer expected similar)
Melting Point	Approx. –54°C (literature – racemic glycidol)
Boiling Point	Approx. 167°C at atmospheric pressure (decomposes); 61 - 62°C @ 15 mmHg reduced pressure (literature – racemic glycidol)
Flash Point	Approx. 66°C, Closed Cup (literature – racemic glycidol; verify with supplier SDS)
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 0°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	Chiral building block / synthon for asymmetric synthesis (pharmaceutical and fine chemical intermediates). See MSDS – this material carries a Category 1B carcinogen and reproductive toxicant classification (based on racemic glycidol data).

Note: Physical constants not specific to the (R)-enantiomer are taken from published data for racemic glycidol (CAS 556-52-5), since enantiomers generally share near-identical physical properties; the optical rotation and chiral purity data above are specific to this (R)-form. Please refer to the accompanying Certificate of Analysis (COA) for batch-specific results.

Factory :- B-5/C-5 to C-7, D-20, Ajeetpur Indl. Estate, Rampur-244901 (U.P.) INDIA Mob.: +91 94122 51810, +91 97209 99980



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Date: 15 August, 2026

Authorized Signatory

For Eco Organics

Partner

(Company Seal)