

SPECIFICATION

Product Name: Menthyl Lactate
Chemical Formula: $C_{13}H_{24}O_3$
CAS Number: 59259-38-0
Molecular Weight: 228.33 g/mol
Appearance: Pale yellow liquid
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Saponification value	-	Complies	273.59
Iodine value	-	Complies	1.2
Specific optical rotation $[\alpha]^{20}_D$	°C	-79.69°C	-79.67°C
Boiling Point	°C	Complies	262°C
Acid value	%	0.053%	0.052%
Purity by GC	%	99.37%	NLT 99.00%

Physical Properties

- Solubility: Insoluble in water. Soluble in ethanol. Soluble in acetone. Soluble in ether. Soluble in chloroform. Soluble in ethanol. Soluble in isopropyl alcohol. Soluble in propylene glycol.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from heat, moisture, light, and contamination.

Applications

- Use: Widely used in pharmaceutical, cosmetic, personal care, oral care, and topical formulations. It provides a mild, prolonged cooling sensation without the strong odor or irritation associated with menthol.

- Dosage: Depends on Desired cooling intensity, Product type, Formulation compatibility, Regulatory requirements, Target consumer preference.

Packaging

- Standard Packing: 10 Liter plastic can, 5 liter and 1 liter or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.