

SPECIFICATION

Product Name: Camphor Powder IP Grade
Chemical Formula: $C_{10}H_{16}O$
CAS Number: 76-22-2
Molecular Weight: 152.23 g/mol
Appearance: White crystals
Odor: Strong aromatic, fresh

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Texture	-	Complies	Solid
Appearance of solution	mg/ml	Clear solution	100 mg/ml solution in solvent hexane is clear
Melting Point	°C	175°C	174°C - 179°C
Non volatile matter	%	0.02%	NMT- 0.05%
Camphor content by GLC	%	96.59%	NLT- 96.0%
Specific optical rotation	-	Complies	Optically inactive racemic form
Halogens	-	Complies	Turbidity does not exceed that produced in the blank solution

Physical Properties

- Solubility: Very slightly soluble in water. Freely soluble in alcohol. Freely soluble in ether, chloroform, acetone, benzene.

Shelf Life & Storage

- Shelf Life: 3-5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in well-closed, airtight containers. Keep in a cool and dry place. Protect from direct sunlight and heat. Store away from sources of ignition (camphor is flammable). Keep in a well-ventilated area.

Applications

- Use: Used in balms and ointments for muscle pain, joint pain, and sprains. Produces a cooling sensation to relieve minor skin irritation. Used in vapor rubs and inhalants for cough and cold relief. Helps reduce itching and skin irritation.
- Dosage: Depends on Age and body weight, Route of administration, Formulation strength (IP grade purity), Medical condition.

Packaging

- Standard Packing: 25 kg Fiber Drum, 1 kgs and 100 grams, 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.