

SPECIFICATION

Product Name: Camphor Powder
Chemical Formula: C ₁₀ H ₁₆ O
CAS Number: 76-22-2
Molecular Weight: 152.23 g/mol
Appearance: White or almost white crystalline powder
Odor: Camphoraceous like odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Melting Point	°C	175.2°C	168°C - 177°C
Residue on evaporation	%	0.030%	Max. 0.05%
Optical rotation	°	0.0°	-0.15° To +0.15°
Camphor content	%	95.07%	Min. 90.00%

Physical Properties

- Solubility: Slightly soluble in water & very soluble in ethanol 96% and freely soluble in fatty oils.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container to prevent sublimation (camphor easily evaporates). Keep in a cool, dry, and well-ventilated place. Protect from heat and direct sunlight. Avoid exposure to open air for long periods (loss due to volatility). Keep away from ignition sources.

Applications

- Use: Used in topical pain relief formulations (balms, ointments) for muscle and joint pain. Acts as a counterirritant and mild analgesic. Common in cough rubs and inhalants for relief from cold and congestion. Added to creams, lotions, and oils for its cooling effect. Used in anti-itch and anti-acne product. Provides a refreshing fragrance in cosmetics. Widely used in religious rituals (pooja/arti) due to its clean-burning property.
- Dosage: Depends on Route of use (topical, inhalation, oral), Age and body weight, Formulation strength, Medical condition being treated.

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner, 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.