

SPECIFICATION

Product Name: Thymol Crystal
Chemical Formula: C ₁₀ H ₁₄ O
CAS Number: 89-83-8
Molecular Weight: 150.22 g/mol
Appearance: Colorless Crystals.
Odor: Strong, pleasant aromatic smell.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Melting Point	°C	49.2°C	48°C to 52°C
Infra-Red Spectrum	-	Complies	Comparable to Thymol CRS
Color Reaction (Test C)	-	Complies	Violet Color of Solution
Color Reaction (Test D)	-	Complies	Blush Green Color of Solution
Acidity	-	Complies	Yellow Solution Color
Appearance of Solution	-	Complies	Reference Suspension IV
Related Substances	-	Complies	Confirm to EP7
Residue on Evaporation	%	0.01%	<0.05%
Chromatographic Purity	%	99.30%	99% - 100%

Physical Properties

- Solubility: Very slightly soluble in water. Freely soluble in alcohol. Highly soluble in ether, chloroform, and oils in organic solvents. Slightly soluble in glycerin.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, airtight container. Keep in a cool, dry, and well-ventilated place (preferably below 25°C). Protect from direct sunlight and heat. Use amber or light-resistant containers to prevent degradation. Keep away from moisture and humidity. Avoid contact with strong oxidizing agents.

Applications

- Use: Used as an antiseptic and disinfectant. Common in mouthwashes, gargles, and dental products. Used as a flavoring agent (thyme-like taste). Acts as a preservative due to antimicrobial action. Added to toothpastes, soaps, and creams. Provides antibacterial protection and fragrance. Used in animal health products for its antifungal and antibacterial effects. Used in disinfectants and sanitizers. Intermediate in chemical synthesis.
- Dosage: Depends on the application and regulatory standards, especially for food and pharmaceutical use.

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.