

Material Safety Data Sheet (MSDS)

Thymol

Revision Date: 26-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Thymol
- **Chemical Formula:** C₁₀H₁₄O
- **CAS No:** 89-83-8
- **Synonyms:** 2-Isopropyl-5-methylphenol; Isopropyl-m-cresol
- **Recommended Use:** Used in pharmaceuticals, antiseptics, disinfectants, perfumery, and flavoring agents.

Section 2: Hazards Identification

- **Classification (GHS):** Acute Toxicity Oral; Skin Irritant; Eye Irritant; Aquatic Chronic Hazard
- **Signal Word:** Warning
- **Hazard Statements:**
 - Harmful if swallowed
 - Causes skin irritation
 - Causes serious eye irritation
 - Harmful to aquatic life with long lasting effects

☎ +91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

✉ info@triveniinterchem.com | info@trivenichemical.com

🌐 www.triveniinterchem.com | www.trivenichemical.com

📍 135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India



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• **Precautionary Statements:**

- Avoid breathing vapors/dust
- Wear protective gloves, protective clothing, and eye protection
- Wash thoroughly after handling
- IF ON SKIN: Wash with plenty of water; if irritation persists, get medical advice
- IF IN EYES: Rinse cautiously with water for several minutes
- Avoid release to the environment

Section 3: Composition / Information on Ingredients

- **Concentration:** 99%

Section 4: First Aid Measures

- **Inhalation:** Remove person to fresh air. If breathing is difficult, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek immediate medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Combustible solid. Emits carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of vapors/dust and contact with skin/eyes. Ensure proper ventilation. Wear protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Sweep up carefully and collect in suitable containers for disposal. Avoid generating dust. Wash spill area with detergent and water.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors/dust. Avoid contact with skin and eyes. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area away from heat and ignition sources.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:** Safety goggles, chemical-resistant gloves, protective clothing. Respiratory protection if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** White to colorless crystalline solid
- **Odor:** Pleasant, aromatic odor
- **Boiling Point:** 232 °C
- **Melting Point:** 48 - 51 °C
- **Flash Point:** 116 °C
- **Solubility:** Slightly soluble in water; soluble in alcohol and organic solvents
- **Molecular Weight:** 150.22 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids.
- **Hazardous Decomposition Products:** Carbon oxides.
- **Conditions to Avoid:** Heat, flames, sparks.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed. Causes skin and eye irritation. Oral LD50 (rat): ~980 mg/kg.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or respiratory irritation.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** Low mobility due to low water solubility.

Section 13: Disposal Considerations

- Dispose of product/container in accordance with local/regional/national regulations. Do not release into the environment.

Section 14: Transport Information

- **UN Number:** UN2430
- **Proper Shipping Name:** Thymol

- Hazard Class: 8
- Packing Group: III

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS).
- Classified as hazardous under GHS for acute toxicity, skin/eye irritation, and aquatic hazard.
- Complies with Indian chemical safety regulations.

Section 16: Other Information

Disclaimer: The information above is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. Triveni Chemicals shall not be held liable for any damage resulting from handling or from contact with the product.

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