

Material Safety Data Sheet (MSDS)

P-Cresol

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** P-Cresol
- **Chemical Formula:** C₇H₈O
- **CAS No:** 106-44-5
- **Synonyms:** 4-Methylphenol, para-Cresol
- **Recommended Use:** : Intermediate in chemical synthesis, disinfectants, fragrances

Section 2: Hazards Identification

- **Classification (GHS):** Acute Toxicity, Acute Toxicity, Skin Corrosion/Irritation, Serious Eye Damage, Specific Target Organ Toxicity, Aquatic Chronic
- **Signal Word:** Danger
- **Hazard Statements:**

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- Harmful if swallowed or in contact with skin
- Causes severe skin burns and eye damage
- May cause respiratory irritation
- Toxic to aquatic life with long lasting effects

• **Precautionary Statements:**

- Avoid breathing vapors
- Wash hands thoroughly after handling
- Wear protective gloves, protective clothing, and eye/face protection
- Avoid release to the environment

Section 3: Composition / Information on Ingredients

- **Concentration:** >95% P-Cresol

Section 4: First Aid Measures

- **Inhalation:** Remove victim to fresh air and keep at rest. Seek immediate medical attention.
- **Skin Contact:** Wash with plenty of water for at least 15 minutes. Remove contaminated clothing. Seek immediate medical advice.

- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek immediate medical attention.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide (CO₂), water spray.
- **Specific Hazards:** Combustible solid, emits toxic fumes of carbon oxides and phenolic compounds under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Evacuate area. Use protective equipment. Avoid inhalation of vapors and contact with skin/eyes.
- **Environmental Precautions:** Prevent entry into drains, surface water, and soil.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for disposal according to regulations.

Section 7: Handling and Storage

- **Handling:** Handle with extreme care in well-ventilated areas. Avoid contact with skin and eyes. Avoid inhalation of vapors.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Keep away from acids and oxidizing agents.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** ACGIH TLV: 22 mg/m³ (5 ppm) TWA
- **Engineering Controls:** Ensure adequate ventilation and local exhaust systems.
- **Personal Protective Equipment:** Chemical resistant gloves, goggles, face shield, protective clothing. Respiratory protection if exposure exceeds permissible limits.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow crystalline solid or liquid
- **Odor:** Phenolic, medicinal odor
- **Boiling Point:** 201 – 203 °C
- **Flash Point:** 86 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in ethanol and organic solvents
- **Molecular Weight:** 108.14 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal handling and storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong acids.
- **Hazardous Decomposition Products:** Carbon oxides, phenolic compounds under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed or absorbed through skin. Causes severe skin and eye burns.
- **Chronic Effects:** Prolonged or repeated exposure may cause liver, kidney, and central nervous system damage.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic organisms with long lasting effects.
- **Persistence and Degradability:** Moderately biodegradable.
- **Bioaccumulative Potential:** Moderate potential for bioaccumulation.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** 3455
- **Proper Shipping Name:** Cresols, Solid
- **Hazard Class:** 6.1 (Toxic substances)
- **Packing Group:** II

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and international chemical inventory listings.
- Classified as hazardous substance as per GHS.

Section 16: Other Information

- **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.

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