

Material Safety Data Sheet (MSDS)

4-Methylbenzaldehyde

Prepared by: Triveni Chemicals

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Version: 1.0

Section 1: Product Identification

- **Product Name:** 4-Methylbenzaldehyde (p-Tolualdehyde)
- **Chemical Formula:** C₈H₈O
- **CAS No:** 104-87-0
- **Recommended Use:** Intermediate in organic synthesis, fragrances, and chemical manufacturing.
- **Supplier:**
Triveni Chemicals
Office No. 123-124, Pancharatna,
Char Rasta, GIDC,
Vapi - 396195, Gujarat, India
☎ +91-9696960250
✉ info@trivenichemical.com

☎ +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



www.chemicalbull.com

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Section 2: Hazards Identification

▪ **Classification (GHS):** Flammable Liquid (Category 4), Acute Toxicity Oral (Category 4), Skin Irritant (Category 2), Eye Irritant (Category 2A).

▪ **Signal Word:** Warning

▪ **Hazard Statements:**

- Combustible liquid
- Harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation

▪ **Precautionary Statements:**

- Keep away from heat, sparks, open flames
- Avoid contact with eyes and skin
- Wear protective gloves and eye protection
- Wash hands thoroughly after handling

Section 3: Composition / Information on Ingredients

- **Chemical Name:** 4-Methylbenzaldehyde
- **Synonyms:** p-Tolualdehyde, 4-Methylbenzal
- **CAS Number:** 104-87-0
- **Concentration:** >95%

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention immediately.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical advice.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards:** Vapors may form explosive mixtures with air. Emits toxic fumes of carbon oxides under fire conditions.

- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid inhalation and skin contact. Ensure proper ventilation.
- **Environmental Precautions:** Prevent entry into drains and water bodies.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for disposal.

Section 7: Handling and Storage

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

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established for 4-Methylbenzaldehyde.

- **Engineering Controls:** Ensure adequate ventilation and local exhaust systems.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat, respirator if exposure limits are exceeded.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Characteristic aromatic odor
- **Boiling Point:** 200 °C
- **Flash Point:** 70-86 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in organic solvents
- **Molecular Weight:** 120.15 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong bases.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed. Causes skin and eye irritation. May cause respiratory irritation.
- **Chronic Effects:** Prolonged exposure may cause sensitization and organ effects.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic organisms with potential for long-term effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Moderate potential for bioaccumulation.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** Not regulated

- **Proper Shipping Name:** 4-Methylbenzaldehyde
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per GHS.

Section 16: Other Information

- **Prepared By:** Triveni Chemicals, Regulatory Affairs Department
- **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.