

P-tert-butylbenzenesulfonamide MSDS

Product Name and Identification

Product Name: [P-tert-butylbenzenesulfonamide](#)

CAS Number: 6292-59-7

Synonyms: N-tert-Butylbenzenesulfonamide

Recommended Use: Research and chemical synthesis applications

Restrictions on Use: Not for ingestion, household use, or untrained handling

Manufacturer/Supplier: [Insert Manufacturer Contact Information Here]

Emergency Contact: [Insert Emergency Contact Information Here]

Composition/Ingredients

Chemical Identity: P-tert-butylbenzenesulfonamide

Synonyms: N-tert-Butylbenzenesulfonamide

Molecular Formula: C₁₀H₁₅NO₂S

Molecular Weight: 213.30 g/mol

Concentration: 100%

Hazards Identification

GHS Classification:

- Skin Irritation (Category 2)
- Eye Irritation (Category 2A)
- Specific Target Organ Toxicity – Single Exposure (Category 3)

GHS Label Elements:

- **Pictogram(s):**



- **Signal Word:** Warning

Hazard Statements:

- Causes skin and eye irritation
- May cause respiratory irritation

Precautionary Statements:

- Avoid inhalation, ingestion, and prolonged skin contact.

- Use in well-ventilated areas.
- Wear protective gear during handling.

Other Hazards: No information available.

First Aid Measures

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Seek medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing. Consult a doctor if irritation occurs.

Inhalation: Move to fresh air. If respiratory symptoms develop, seek medical attention immediately.

Ingestion: Rinse mouth with water. Do NOT induce vomiting unless instructed by medical personnel. Call a physician immediately.

Note to Physician: Treat symptomatically based on the patient's condition.

Handling and Storage

Handling:

- Use proper protective equipment to prevent skin and eye contact.
- Avoid inhaling dust or fumes.
- Work in a fume hood or well-ventilated area.

Storage:

- Store in a cool, dry, and well-ventilated location.
- Keep container tightly closed when not in use.
- Protect from moisture and incompatible substances.

Incompatibilities: Strong oxidizing agents and acids.

Exposure Controls/Personal Protection

Exposure Limits: No occupational exposure limits have been established.

Engineering Controls:

- Ensure adequate ventilation, such as a fume hood.
- Install eyewash stations and safety showers.

Personal Protective Equipment (PPE):

- **Eyes:** Safety goggles or face shield.
- **Skin:** Chemical-resistant gloves and protective clothing.
- **Respiratory:** Use an approved dust mask or respirator when required.

Hygiene Measures:

- Wash hands thoroughly after handling.
- Remove and clean contaminated clothing before reuse.

Physical and Chemical Properties

- **Appearance:** White crystalline solid
- **Odor:** Odorless
- **Melting Point/Range:** 95–97°C
- **Boiling Point/Range:** Decomposes before boiling
- **Flash Point:** Not applicable
- **Solubility:** Slightly soluble in water; soluble in organic solvents
- **Specific Gravity:** 1.15 g/cm³ at 25°C
- **pH:** Not available
- **Vapor Pressure:** Negligible
- **Partition Coefficient (Log K_{ow}):** Not available

Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Reactivity: Non-reactive under normal conditions.

Conditions to Avoid: Excess moisture, extreme temperatures, and open flame.

Hazardous Decomposition Products: Sulfur oxides, nitrogen oxides, and toxic fumes.

Possibility of Hazardous Reactions: None under normal processing.

Toxicological Information

Acute Toxicity: Limited data available.

Skin Irritation: Causes irritation upon prolonged exposure.

Eye Irritation: May cause redness and tearing.

Respiratory Sensitization: Prolonged exposure to dust could irritate the respiratory tract.

Long-Term Effects: No significant chronic hazards identified based on available data.

Carcinogenicity: Not classified as carcinogenic based on current information.

Disposal Considerations

Waste Disposal Methods:

Dispose of contents and container in accordance with local, regional, national, and international regulations.

Special Precautions: Do not dispose of material into the environment or drainage system.

Disclaimer: The information contained in this MSDS is believed to be accurate and reliable as of the date of publication. However, no representation is made regarding its completeness or accuracy. Users should independently verify suitability for specific applications.