

Benzenesulfonyl Chloride

Moisture-sensitive sulfonyl chloride intermediate for organic synthesis and derivatization.

CAS 98-09-9	EC 202-636-6	Transport Class 8 · UN 2225 · PG III
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Product Information

Benzenesulfonyl chloride is a reactive sulfonylating intermediate. It reacts with suitable nucleophiles and hydrolyzes in contact with water, producing acidic products. The liquid grade specifies assay, color, free acidity and alkali-insoluble matter. Dry equipment and compatible transfer materials are important when preparing a reaction charge. The substance is corrosive; reaction temperature, addition rate, ventilation and moisture exclusion need to be addressed in the process assessment.

Specifications

Parameter	Specification
Appearance	Colorless to light yellow liquid
Assay	≥99.0 %
Color	≤50 APHA
Free acid	≤0.2 %
Alkali-insoluble matter	≤0.2 %

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₆ H ₅ ClO ₂ S
Molecular weight (component)	176.62 g/mol

Applications

Sulfonylation chemistry: Use as a reagent in appropriately designed sulfonylation reactions.

Organic intermediates: Evaluate the liquid grade as a feedstock for organic intermediate synthesis.

Derivatization processes: Assess the reagent for suitable derivatization of nucleophilic functional groups.

Packaging / Storage

Item	Information
Packaging	250 kg plastic drums.
Storage	Keep tightly closed in a cool, dry, ventilated area; exclude water and moisture, and segregate incompatible bases and oxidizers.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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