



CAS Registry Number: 4358-63-8
Molecular Formula: C₁₂H₁₀O₃S
Molecular Weight: 234.275
Accurate Mass: 234.035065
Percentage Composition: C 61.52%; H 4.30%; O 20.49%; S 13.69%
Melting Point: Mp 34-35°

>>Derivative: Fluoride

CAS Registry Number: 368-43-4
Molecular Formula: C₆H₅FO₂S
Molecular Weight: 160.169
Accurate Mass: 159.999428
Percentage Composition: C 44.99%; H 3.15%; F 11.86%; O 19.98%; S 20.02%
Use/Importance: Sulfonylating agent
Boiling Point: Bp 207-208°
Refractive Index: n_D²⁰ 1.4920

Aldrich: 28233-2

>>Derivative: Chloride

CAS Registry Number: 98-09-9
Molecular Formula: C₆H₅ClO₂S
Molecular Weight: 176.623
Accurate Mass: 175.969877
Percentage Composition: C 40.80%; H 2.85%; Cl 20.07%; O 18.12%; S 18.16%
Use/Importance: Reagent for prep. of benzenesulfonates and for Hinsberg's separation of primary, secondary and tertiary amines
Melting Point: Mp 14.5°
Boiling Point: Bp_{0.05} 61°. Bp 251-252°. Bp₁₀ 120°
Density: d₁₅¹⁵ 1.384

Hazard & Toxicity: Violent reaction with DMSO. Explodes after prolonged storage in glass. Corrosive and irritating to all tissues

Aldrich: 10811-1

Fluka: 12630

Sigma: B0637

>>Derivative: Amide

see Benzenesulfonamide, [LVZ97-I](#)

>>Derivative: Anilide

Synonym(s): *N*-Phenylbenzenesulfonamide, 9Cl. Benzenesulfonanilide

CAS Registry Number: 1678-25-7
Molecular Formula: C₁₂H₁₁NO₂S
Molecular Weight: 233.29
Accurate Mass: 233.051049
Percentage Composition: C 61.78%; H 4.75%; N 6.00%; O 13.72%; S 13.75%
Melting Point: Mp 110°
pKa Value: pK_{a1} 8.31 (20°, 0.1M KCl)

Rare Chemicals Library: S81545-4

>>Derivative: 2-Phenylhydrazide

CAS Registry Number: 6596-69-6

Molecular Formula: C₁₂H₁₂N₂O₂S
Molecular Weight: 248.305
Accurate Mass: 248.061948
Percentage Composition: C 58.05%; H 4.87%; N 11.28%; O 12.89%; S 12.91%
Use/Importance: Used as 2% EtOH soln. for pptn. separation and gravimetric detn. of Se
Physical Description: Cryst.
Melting Point: Mp 148-150 dec.°
Solubility: Sol. EtOH