



CAS Registry Number: 63-74-1

Molecular Formula: $C_6H_8N_2O_2S$

Molecular Weight: 172.207

Accurate Mass: 172.030648

Percentage Composition: C 41.85%; H 4.68%; N 16.27%; O 18.58%; S 18.62%

Use/Importance: Antibacterial chiefly of historical importance. Numerous derivs. have antibacterial props. Used for photometric detn. of $NO_2^{(-)}$ and $NO_3^{(-)}$

Physical Description: Leaflets (EtOH aq.)

Melting Point: Mp 165-166°

Solubility: Sol. H_2O

pKa Value: pK_{a1} 10.58 (20°, 0.1M KCl)

Calculated Log P Data: Log P -0.57 (calc)

Other Data: Can be diazotised

Hazard & Toxicity: Human teratogenic effects. Exp. reprod. effects. LD_{50} (rat, orl) 3900 mg/kg

Aldrich: 24034-6

Fluka: 86060

Sigma: S9251

>>**Derivative:** Amide, N^{amide} -Ac

Synonym(s): *N*-[(4-Aminophenyl)sulfonyl]acetamide, 9CI. **Sulfacetamide**, INN. Sulphacetamide, BAN. Albucid

CAS Registry Number: 144-80-9

Molecular Formula: $C_8H_{10}N_2O_3S$

Molecular Weight: 214.245

Accurate Mass: 214.041213

Percentage Composition: C 44.85%; H 4.70%; N 13.08%; O 22.40%; S 14.97%

Use/Importance: Antibacterial, freq. employed as Na salt (*Sulphacetamide sodium, BAN*)

Melting Point: Mp 181-184°

Calculated Log P Data: Log P -0.35 (calc)

Hazard & Toxicity: Exp. teratogenic affects

Fluka: 86018

Sigma: S8627