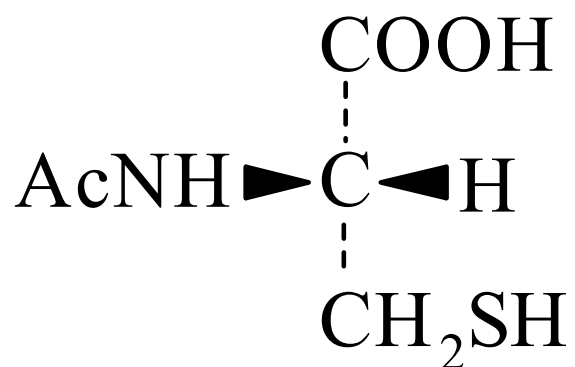




>>Entry Name: *N*-Acetylcysteine

ENTRY UNDER REVIEW

Synonym(s): 2-Acetamido-3-mercaptopropanoic acid. **Acetylcysteine**, BAN, INN, USAN



Molecular Formula: C₅H₉NO₃S

Molecular Weight: 163.197

Accurate Mass: 163.030314

Percentage Composition: C 36.80%; H 5.56%; N 8.58%; O 29.41%; S 19.65%

Biological Use/Importance: Mucolytic agent. Also used as an antidote to paracetamol poisoning

Calculated Log P Data: Log P -0.64 (calc)

Hazard & Toxicity: Adverse effects reported when used therapeutically. LD₅₀ (rat, orl) 5050 mg/kg

>>Variant: (*R*)-form

Synonym(s): L-form. Airbron. Fabrol. Mucomyst. Parvalex. Respire. Fluimucil. NSC 111180

CAS Registry Number: 616-91-1

Molecular Formula: C₅H₉NO₃S

Molecular Weight: 163.197

Accurate Mass: 163.030314

Percentage Composition: C 36.80%; H 5.56%; N 8.58%; O 29.41%; S 19.65%

Use/Importance: Effective inhibitor of enzymic browning in foods

Physical Description: Cryst. (H₂O)

Melting Point: Mp 109-110°

Optical Rotation: [α]_D +5 (c, 3 in H₂O)

Other Data: Pharmacol. active isomer

Aldrich: 13806-1

Fluka: 1039

Sigma: A9165