



CAS Registry Number: 18725-37-6

Molecular Formula: C₇H₁₁NO₄S

Molecular Weight: 205.234

Accurate Mass: 205.040879

Percentage Composition: C 40.97%; H 5.40%; N 6.82%; O 31.18%; S 15.62%

Biological Use/Importance: Mucolytic agent

Melting Point: Mp 120.5-122.5°

Optical Rotation: $[\alpha]_D^{25} -42$ (c, 2 in H₂O)

Calculated Log P Data: Log P -0.6 (uncertain value) (calc)

>>Derivative: S-2-Hydroxybenzoyl ester

Synonym(s): N-Acetyl-cysteine salicylate. **Salnacedin**, INN, USAN

CAS Registry Number: 87573-01-1

Molecular Formula: C₁₂H₁₃NO₅S

Molecular Weight: 283.304

Accurate Mass: 283.051444

Percentage Composition: C 50.88%; H 4.62%; N 4.94%; O 28.24%; S 11.32%

Biological Use/Importance: Antiinflammatory agent

>>Derivative: S-2-Hydroxybenzoyl, compd. with Erythromycin

Synonym(s): Erythromycin **salnacedin**, USAN

CAS Registry Number: 149908-23-6

Biological Use/Importance: Used in the treatment of acne vulgaris

>>Derivative: S-(2-(Acetyloxybenzoyl)

Synonym(s): **Salmisteine**, INN

CAS Registry Number: 89767-59-9

Molecular Formula: C₁₄H₁₅NO₆S

Molecular Weight: 325.342

Accurate Mass: 325.062009

Percentage Composition: C 51.69%; H 4.65%; N 4.31%; O 29.51%; S 9.86%

Biological Use/Importance: Antipyretic and mucolytic agent

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 100-102°

Calculated Log P Data: Log P 0.53 (uncertain value) (calc)