



>>Derivative: *N*-Ph

Synonym(s): Salicylanilide. Ansadol. Hyanilid. Salifebrin. Salinidol. ASK

CAS Registry Number: 87-17-2

Molecular Formula: C₁₃H₁₁NO₂

Molecular Weight: 213.235

Accurate Mass: 213.078979

Percentage Composition: C 73.23%; H 5.20%; N 6.57%; O 15.01%

Use/Importance: Antipyretic and topical antifungal agent. Used as 1% aq. soln. for photometric detn. of U(*VI*) ($\lambda_{\max}$ 360 nm, ϵ 3870)

Physical Description: Prisms (H₂O)

Melting Point: Mp 135.8-136.2°

Solubility: Sol. alkalis, EtOH; mod. sol. H₂O

pKa Value: p*K*_a 7.5 (20°)

Calculated Log P Data: Log P 3.27 (calc)

Aldrich: 13176-8

Fluka: 84245

Sigma: S5503

>>Derivative: *N*-Ph, Et ether

Synonym(s): *N*-(*o*-Ethoxybenzoyl)phenylhydroxylamine. 2-Ethoxy-*N*-hydroxy-*N*-phenylbenzamide, 9Cl

CAS Registry Number: 69079-96-5

Molecular Formula: C₁₅H₁₅NO₂

Molecular Weight: 241.289

Accurate Mass: 241.110279

Percentage Composition: C 74.67%; H 6.27%; N 5.80%; O 13.26%

Use/Importance: Used for pptn. of Al, Cu, Fe, Hf, Mn, Pb, Sn(*II*), Sn(*IV*), Ti, Zr

Physical Description: Cryst.

Melting Point: Mp 103°

Solubility: Sol. common org. solvs; spar. sol. H₂O (1 mg per 100 cm³ at 25°)

>>Derivative: *N*-Hydroxy

Synonym(s): Salicylhydroxamic acid. *N*,2-Dihydroxybenzamide, 9Cl

CAS Registry Number: 89-73-6

Molecular Formula: C₇H₇NO₃

Molecular Weight: 153.137

Accurate Mass: 153.042594

Percentage Composition: C 54.90%; H 4.61%; N 9.15%; O 31.34%

Use/Importance: Used as a 0.05*M* soln. in 5*M* HCl for extraction-photometric detn. of Ti, V. Trypanocide

Physical Description: Cryst. (CCl₄/heptanol)

Melting Point: Mp 168°

Solubility: Sol. acids

Aldrich: S60-7

Sigma: S7504

>>Derivative: Et ether

Synonym(s): 2-Ethoxybenzamide, 9Cl. **Ethenzamide**, INN. Etenzamide, BAN. Many other names

CAS Registry Number: 938-73-8

Molecular Formula: C₉H₁₁NO₂

Molecular Weight: 165.191

Accurate Mass: 165.078979

Percentage Composition: C 65.44%; H 6.71%; N 8.48%; O 19.37%

Use/Importance: Analgesic

Melting Point: Mp 132-134°

Calculated Log P Data: Log P 1.29 (calc)

Aldrich: E440-2

>>Derivative: *O*-(*N*-Methylcarbamoyl), *N*-Ph