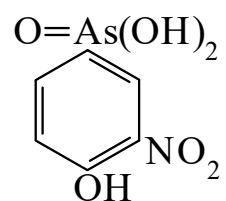




>>Entry Name: (4-Hydroxy-3-nitrophenyl)arsonic acid, 9CI

Synonym(s): (4-Hydroxy-3-nitrobenzene)arsonic acid. **Roxarsone**, BAN, INN, USAN. Ren-O-sal. Ristat. NSC 2101



CAS Registry Number: 121-19-7

Related CAS Registry Numbers(s): 54599-05-2

Molecular Formula: C₆H₆AsNO₆

Molecular Weight: 263.038

Accurate Mass: 262.941108

Percentage Composition: C 27.40%; H 2.30%; As 28.48%; N 5.32%; O 36.50%

Source/Synthesis: Synth. from sodium (4-hydroxyphenyl)arsonate and HNO₃/H₂SO₄

Use/Importance: Anal. reagent. Used to control enteric infections in chickens and to improve growth and feed efficiency. Used as 2.5mM aq. soln. for pptn. separation of Ta from Sn, Ti, W; gravimetric detn. of Zr

Physical Description: Pale yellow needles or plates (H₂O)

Melting Point: Mp 300°

Solubility: Spar. sol. hot H₂O; insol. Et₂O, EtOAc; v. sol. MeOH, EtOH, Me₂CO

Calculated Log P Data: Log P -0.23 (calc)

Other Data: Puffs up and deflagrates on heating

Hazard & Toxicity: LD₅₀ (rat, orl) 155 mg/kg. Exp. neurotoxic and nephrotoxic props.

Aldrich: H4820-4

Fluka: 73570

Sigma: H3508

>>Derivative: Mono-Me₂NH salt

CAS Registry Number: 83340-35-6

Molecular Formula: C₈H₁₃AsN₂O₆

Molecular Weight: 308.122

Percentage Composition: C 31.19%; H 4.25%; As 24.32%; N 9.09%; O 31.16%

Physical Description: Cryst. (EtOH/Me₂CO)

Melting Point: Mp 156-157°

>>Derivative: O-(4-Methylbenzenesulfonyl)

Molecular Formula: C₁₃H₁₂AsNO₈S

Molecular Weight: 417.227

Percentage Composition: C 37.42%; H 2.90%; As 17.96%; N 3.36%; O 30.68%; S 7.69%

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 171°

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