



>>>Entry Name: (4-Aminophenyl)arsonic acid, 9Cl

Synonym(s): (4-Aminobenzene)arsonic acid. *p*-Aminophenylarsonic acid. *p*-Aminophenylarsinic acid. **Arsanilic acid**, BAN, INN, USAN. Mycosan-T. Pro-gen. AS 110

CAS Registry Number: 98-50-0

Molecular Formula: C<sub>6</sub>H<sub>8</sub>AsNO<sub>3</sub>

Molecular Weight: 217.056

Accurate Mass: 216.972013

Percentage Composition: C 33.20%; H 3.71%; As 34.52%; N 6.45%; O 22.11%

Source/Synthesis: Synth. by redn. of (4-Nitrophenyl)arsonic acid [DMF88-P](#) with Fe<sup>II</sup>

Use/Importance: Used in vet. treatment of enteritis and as a growth promoter. Antileukaemic drug. Used in photometric detn. of Zr

Physical Description: Needles (H<sub>2</sub>O)

Solubility: Insol. Me<sub>2</sub>CO, CHCl<sub>3</sub>, C<sub>6</sub>H<sub>6</sub>; spar. sol. EtOH; sol. Et<sub>2</sub>O, H<sub>2</sub>O, conc. acids, alkalis

pKa Value: pK<sub>a1</sub> 1.91; pK<sub>a2</sub> 4.13; pK<sub>a3</sub> 9.19 (25°)

Calculated Log P Data: Log P -1.17 (calc)

**Hazard & Toxicity:** LD<sub>50</sub> (rat, orl) >1000 mg/kg

Aldrich: 21691-7

Sigma: A9258

>>>Derivative: Mono-Na salt

Synonym(s): **Sodium arsanilate**, BAN. Atoxyl. Kilscour. Piglet Gen-Gro

CAS Registry Number: 127-85-5

Physical Description: Cryst. + 4H<sub>2</sub>O

>>>Derivative: Mono-Me<sub>2</sub>NH salt

CAS Registry Number: 78681-65-9

Molecular Formula: C<sub>8</sub>H<sub>15</sub>AsN<sub>2</sub>O<sub>3</sub>

Molecular Weight: 262.14

Accurate Mass: 262.029862

Percentage Composition: C 36.66%; H 5.77%; As 28.58%; N 10.69%; O 18.31%

Physical Description: Solid

Melting Point: Mp 151-156 dec.°

>>>Derivative: *N*-Ac

Synonym(s): [4-(Acetylamino)phenyl]arsonic acid

CAS Registry Number: 618-22-4

Physical Description: Cryst. (Me<sub>2</sub>CO/H<sub>2</sub>O or EtOH)

Melting Point: Mp 200 dec.°

>>>Derivative: *N*-Ac, dicyclohexylamine salt (1:1)

CAS Registry Number: 80709-89-3

Molecular Formula: C<sub>20</sub>H<sub>33</sub>AsN<sub>2</sub>O<sub>4</sub>

Molecular Weight: 440.413

Accurate Mass: 440.165627

Percentage Composition: C 54.54%; H 7.55%; As 17.01%; N 6.36%; O 14.53%

Physical Description: Solid

Melting Point: Mp 203 dec.°

>>>Derivative: *N*-Chloroacetyl

CAS Registry Number: 5425-62-7

Physical Description: Plates (H<sub>2</sub>O)

Melting Point: Mp 285 dec.°

Solubility: Mod. sol. hot H<sub>2</sub>O, AcOH; sol. hot EtOH

Rare Chemicals Library: S34390-0

References: