



**>>Entry Name: 3-Aminopyridine**

**Synonym(s):** 3-Pyridinamine, 9Cl.  $\beta$ -Pyridylamine

**CAS Registry Number:** 462-08-8

**Molecular Formula:**  $C_5H_6N_2$

**Molecular Weight:** 94.116

**Accurate Mass:** 94.053098

**Percentage Composition:** C 63.81%; H 6.43%; N 29.76%

**Physical Description:** Cryst. ( $C_6H_6$ /petrol)

**Melting Point:** Mp 64°. Mp 81-82°

**Boiling Point:** Bp 250-252°

**pKa Value:**  $pK_{a1}$  6.04;  $pK_{a2}$  -1.43 (20°)

**Hazard & Toxicity:** LD<sub>50</sub> (mus, ipr) 28 mg/kg

**Aldrich:** A7820-9

**Fluka:** 9360

**Sigma:** A3005

**>>Derivative: 3-N-Ac**

**CAS Registry Number:** 5867-45-8

**Molecular Formula:**  $C_7H_8N_2O$

**Molecular Weight:** 136.153

**Accurate Mass:** 136.063663

**Percentage Composition:** C 61.75%; H 5.92%; N 20.57%; O 11.75%

**Physical Description:** Cryst. ( $C_6H_6$ )

**Melting Point:** Mp 133°

**Boiling Point:** Bp 326°

**>>Derivative: 3-N,N-Di-Ac**

**CAS Registry Number:** 27179-66-4

**Molecular Formula:**  $C_9H_{10}N_2O_2$

**Molecular Weight:** 178.19

**Accurate Mass:** 178.074228

**Percentage Composition:** C 60.66%; H 5.66%; N 15.72%; O 17.96%

**Physical Description:** Cryst. ( $C_6H_6$ )

**Melting Point:** Mp 88°

**>>Derivative: 3-N-Benzoyl**

**CAS Registry Number:** 5221-40-9

**Molecular Formula:**  $C_{12}H_{10}N_2O$

**Molecular Weight:** 198.224

**Accurate Mass:** 198.079313

**Percentage Composition:** C 72.71%; H 5.08%; N 14.13%; O 8.07%

**Physical Description:** Cryst. ( $C_6H_6$ )

**Melting Point:** Mp 119°

**>>Derivative: 3-N-Benzoyl; hydrochloride**

**Melting Point:** Mp 206 dec.°

**>>Derivative: 3-N-Me**