



**Synonym(s):** 3-Aminopropanamide, 9CI

**CAS Registry Number:** 4726-85-6

**Molecular Formula:** C<sub>3</sub>H<sub>8</sub>N<sub>2</sub>O

**Molecular Weight:** 88.109

**Accurate Mass:** 88.063663

**Percentage Composition:** C 40.90%; H 9.15%; N 31.79%; O 18.16%

**Physical Description:** Needles or oil

**Melting Point:** Mp 41°

>>Derivative: Amide; hydrochloride

**CAS Registry Number:** 64017-81-8

**Physical Description:** Cryst.

**Melting Point:** Mp 149°

>>Derivative: Amide; sulfate

**Physical Description:** Cryst.

**Melting Point:** Mp 182-186°

>>Derivative: Nitrile

**Synonym(s):** 3-Aminopropanenitrile, 9CI. 3-Cyanopropylamine. β-Aminopropionitrile

**CAS Registry Number:** 151-18-8

**Molecular Formula:** C<sub>3</sub>H<sub>6</sub>N<sub>2</sub>

**Molecular Weight:** 70.094

**Accurate Mass:** 70.053098

**Percentage Composition:** C 51.41%; H 8.63%; N 39.97%

**Biological Source:** Constit. of sweet pea (*Lathyrus odoratus*) and constit. of chickling pea (*Lathyrus sativus*)

**Use/Importance:** Causes lathyrism

**Boiling Point:** Bp<sub>23</sub> 89°. Bp<sub>0.1</sub> 50-55°

**Hazard & Toxicity:** LD<sub>50</sub> (mus, ipr) 1152 mg/kg. Exp. reprod. and teratogenic effects. Polymerizes to an explosive yellow solid. Storage hazard

>>Derivative: Nitrile; hydrochloride

**Physical Description:** Cryst. (EtOH)

**Melting Point:** Mp 163-163.5°

>>Derivative: Nitrile; fumarate salt

**CAS Registry Number:** 2079-89-2

**Melting Point:** Mp 170-173 dec.°

**Aldrich:** A7642-7

**Fluka:** 9291

**Sigma:** A3134

>>Derivative: *N*-Dodecanoyl

>>Derivative: *N*-tert-Butyloxycarbonyl

**CAS Registry Number:** 3303-84-2

**Molecular Formula:** C<sub>8</sub>H<sub>15</sub>NO<sub>4</sub>

**Molecular Weight:** 189.211

**Accurate Mass:** 189.100109

**Percentage Composition:** C 50.78%; H 7.99%; N 7.40%; O 33.82%

**Physical Description:** Cryst. (EtOAc/petrol)

**Melting Point:** Mp 77-78°