



Synonym(s): 3-Aminopropanamide, 9CI

CAS Registry Number: 4726-85-6

Molecular Formula: C₃H₈N₂O

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: C₃H₆N₂

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: Bp₂₃ 89°. Bp_{0.1} 50-55°

Hazard & Toxicity: LD₅₀ (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: C₈H₁₅NO₄

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°