



Physical Description: Cryst. (EtOAc)

Melting Point: Mp 89-91°

>>**Derivative:** Diamide

Synonym(s): Pentanediamide. Glutaramide

CAS Registry Number: 3424-60-0

Molecular Formula: C₅H₁₀N₂O₂

Molecular Weight: 130.146

Accurate Mass: 130.074228

Percentage Composition: C 46.14%; H 7.74%; N 21.52%; O 24.59%

Physical Description: Leaflets

Melting Point: Mp 175-176°

>>**Derivative:** Mononitrile

Synonym(s): 4-Cyanobutanoic acid

CAS Registry Number: 39201-33-7

Molecular Formula: C₅H₇NO₂

Molecular Weight: 113.116

Accurate Mass: 113.047679

Percentage Composition: C 53.09%; H 6.24%; N 12.38%; O 28.29%

Physical Description: Deliquescent cryst.

Melting Point: Mp 45°

Solubility: Sol. H₂O, EtOH, Et₂O, C₆H₆

pKa Value: pK_a 4.44 (25°)

>>**Derivative:** Et ester-nitrile

CAS Registry Number: 10444-38-9

Molecular Formula: C₇H₁₁NO₂

Molecular Weight: 141.169

Accurate Mass: 141.078979

Percentage Composition: C 59.56%; H 7.85%; N 9.92%; O 22.67%

Melting Point: Mp 245°

>>**Derivative:** Amide-nitrile

CAS Registry Number: 53897-27-1

Molecular Formula: C₅H₈N₂O

Molecular Weight: 112.131

Accurate Mass: 112.063663

Percentage Composition: C 53.56%; H 7.19%; N 24.98%; O 14.27%

Physical Description: Leaflets

Melting Point: Mp 69-70° (sealed tube)

>>**Derivative:** Dinitrile

Synonym(s): Glutaronitrile. 1,3-Dicyanopropane

CAS Registry Number: 544-13-8

Molecular Formula: C₅H₆N₂

Molecular Weight: 94.116

Accurate Mass: 94.053098

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

Physical Description: Oil

Boiling Point: Bp₁₃ 144-147°

Hazard & Toxicity: LD₅₀ (mus, orl) 266 mg/kg

Aldrich: 13062-1

Fluka: 49730

Sigma: G0764

>>**Derivative:** Anhydride

>>**Derivative:** Imide