



Boiling Point: Bp₁₂ 77°
Refractive Index: n_D²⁰ 1.4420
Aldrich: 30257-0

>>**Derivative:** Anilide
Synonym(s): Propionanilide

CAS Registry Number: 620-71-3
Molecular Formula: C₉H₁₁NO
Molecular Weight: 149.192
Accurate Mass: 149.084064
Percentage Composition: C 72.46%; H 7.43%; N 9.39%; O 10.72%
Physical Description: Cryst. (C₆H₆)
Boiling Point: Bp 104-104.5°
Rare Chemicals Library: S81399-0

>>**Derivative:** Hydrazide

CAS Registry Number: 5818-15-5
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%
Melting Point: Mp 40°
Boiling Point: Bp₁₆ 130°
Solubility: Sol. H₂O; spar. sol. Et₂O

>>**Derivative:** Nitrile
Synonym(s): Propionitrile. Ethyl cyanide. Cyanoethane

CAS Registry Number: 107-12-0
Molecular Formula: C₃H₅N
Molecular Weight: 55.079
Accurate Mass: 55.042199
Percentage Composition: C 65.42%; H 9.15%; N 25.43%
Physical Description: Liq. with ethereal odour
Melting Point: Fp -103.5°
Boiling Point: Bp 97°
Solubility: Part. misc. H₂O

Hazard & Toxicity: Rapidly absorbed through skin. One of the most toxic organic cyanides known. Highly flammable, fl. p. 2°. Skin and eye irritant. LD₅₀ (rat, orl) 39 mg/kg. LD₅₀ (rbt, skn) 210 mg/kg. LC₅₀ (mus, ihl) 163 ppm (1h exposure)

Aldrich: 18559-0
Fluka: 81900
Supelco: R47-2120

>>**Derivative:** Anhydride
Synonym(s): Propionic anhydride

CAS Registry Number: 123-62-6
Molecular Formula: C₆H₁₀O₃
Molecular Weight: 130.143
Accurate Mass: 130.062995
Percentage Composition: C 55.37%; H 7.74%; O 36.88%
Physical Description: Liq.
Boiling Point: Bp 168.4-168.8°. Bp₁₈ 67.5°

Hazard & Toxicity: Flammable. Corrosive and irritating to skin, eyes and mucous membranes

Aldrich: 24031-1
Fluka: 81942
Sigma: P6781

>>**Derivative:** Na salt

CAS Registry Number: 686-67-9

Use/Importance: Antimicrobial agent used, eg. in cheese

References: