>>**Entry Name: 3-Amino-1-propanol**
Synonym(s): 3-Hydroxypropylamine. Propanolamine

CAS Registry Number: 156-87-6
Related CAS Registry Numbers(s): 18600-41-4 29833-41-8 29833-46-3
$H_2NCH_2CH_2CH_2OH$

Molecular Formula: C_3H_9NO
Molecular Weight: 75.11
Accurate Mass: 75.068414
Percentage Composition: C 47.97%; H 12.08%; N 18.65%; O 21.30%
Melting Point: Mp 11°
Boiling Point: Bp 188°. $Bp_{0.7}$ 44-45°
Solubility: Sol. H_2O, EtOH, Me_2CO, $CHCl_3$
pKa Value: pK_a 9.96 (25°,H_2O)
Hazard & Toxicity: Severe eye and skin irritant. LD_{50} (rbt, skn) 1250 mg/kg. Exp. teratogen. Fl. p. 80° (oc)

Aldrich: A7640-0
Fluka: 9290
Sigma: A0536

>>**Derivative:** *O*-Ac

Molecular Formula: $C_5H_{11}NO_2$
Molecular Weight: 117.147
Accurate Mass: 117.078979
Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%
Melting Point: Mp 86° (as hydrochloride)

>>**Derivative:** *O*-Benzoyl

Molecular Formula: $C_{10}H_{13}NO_2$
Molecular Weight: 179.218
Accurate Mass: 179.094629
Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%
Melting Point: Mp 182-183° (112°) (as hydrochloride)

>>**Derivative:** *N*-Benzoyl
Synonym(s): *N*-(3-Hydroxypropyl)benzamide

CAS Registry Number: 13609-09-1
Molecular Formula: $C_{10}H_{13}NO_2$
Molecular Weight: 179.218
Accurate Mass: 179.094629
Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%
Physical Description: Needles (EtOAc)
Melting Point: Mp 60-60.5°

>>**Derivative:** Me ether
Synonym(s): 3-Methoxy-1-propylamine

CAS Registry Number: 5332-73-0
Molecular Formula: $C_4H_{11}NO$
Molecular Weight: 89.137
Accurate Mass: 89.084064
Percentage Composition: C 53.90%; H 12.44%; N 15.71%; O 17.95%
Boiling Point: Bp 116°
pKa Value: pK_a 10.01 (25°,H_2O)

Aldrich: M2500-7
Fluka: 65309
Rare Chemicals Library: S42987-2