



>>Entry Name: 8-Aminooctanoic acid, 9CI

Synonym(s): 8-Aminocaprylic acid

CAS Registry Number: 1002-57-9

$\text{H}_2\text{NCH}_2(\text{CH}_2)_6\text{COOH}$

Molecular Formula: $\text{C}_8\text{H}_{17}\text{NO}_2$

Molecular Weight: 159.228

Accurate Mass: 159.125929

Percentage Composition: C 60.35%; H 10.76%; N 8.80%; O 20.10%

Physical Description: Cryst.

Melting Point: Mp 194° (185-186°, 172°)

Aldrich: 85529-4

Fluka: 7280

Sigma: A4507

>>Derivative: Hydrochloride

CAS Registry Number: 27991-81-7

Melting Point: Mp 144-145°

>>Derivative: Et ester

CAS Registry Number: 51227-18-0

Molecular Formula: $\text{C}_{10}\text{H}_{21}\text{NO}_2$

Molecular Weight: 187.281

Accurate Mass: 187.157229

Percentage Composition: C 64.13%; H 11.30%; N 7.48%; O 17.09%

Other Data: No phys. props. reported

>>Derivative: *N*-Benzoyl

CAS Registry Number: 43218-50-4

Molecular Formula: $\text{C}_{15}\text{H}_{21}\text{NO}_3$

Molecular Weight: 263.336

Accurate Mass: 263.152144

Percentage Composition: C 68.42%; H 8.04%; N 5.32%; O 18.23%

Melting Point: Mp 87-88°

>>Derivative: Lactam

see Octahydro-2*H*-azonin-2-one, [DGZ71-L](#)

References:

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Behrend, R., *Ber.*, 1896, **29**, 808, (*synth*)
Gäumann, T. *et al.*, *Helv. Chim. Acta*, 1952, **35**, 53, (*ir*)
Treibs, W. *et al.*, *Chem. Ber.*, 1956, **89**, 117, (*synth*)
Takagi, S. *et al.*, *Chem. Pharm. Bull.*, 1959, **7**, 96, (*synth*)
Pied, J.P. *et al.*, *Ann. Chim. (Paris)*, 1960, **5**, 469, (*synth*)
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Bell, R.A. *et al.*, *Can. J. Chem.*, 1992, **70**, 186, (*synth*, *Et ester*, *pmr*)
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