>>**Entry Name: 2-Aminoacetamide,** 9CI
Synonym(s): Glycine amide. Glycinamide

CAS Registry Number: 598-41-4
$H_2NCH_2CO^{\alpha}NH_2$

Molecular Formula: $C_2H_6N_2O$
Molecular Weight: 74.082
Accurate Mass: 74.048013
Percentage Composition: C 32.43%; H 8.16%; N 37.81%; O 21.60%
Physical Description: Needles
Melting Point: Mp 65-67°
Solubility: Sol. H_2O, EtOH; spar. sol. Et_2O, C_6H_6
pKa Value: pK_a 7.95 (25°)
Other Data: Strongly alkaline. Absorbs CO_2 from air

>>**Derivative:** Hydrochloride

CAS Registry Number: 1668-10-6
Melting Point: Mp 207-208°
Aldrich: G610-4
Fluka: 50070
Sigma: G7378

>>**Derivative:** N^{α}-Formyl

Molecular Formula: $C_3H_6N_2O_2$
Molecular Weight: 102.093
Accurate Mass: 102.042928
Percentage Composition: C 35.29%; H 5.92%; N 27.44%; O 31.34%
Use/Importance: Intermed. in purine biosynthesis
Physical Description: Amorph.

>>**Derivative:** N^{α}-(2,6-Dimethylphenyl)
see 2-Amino-*N*-(2,6-dimethylphenyl)acetamide, HOV52-I

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 634C, *(nmr)*
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 753C, *(ir)*
Konigs, E. *et al.*, *Ber.*, 1908, **41**, 4429, *(synth)*
Yang, P.S. *et al.*, *J.A.C.S.*, 1931, **53**, 3183, *(synth)*
Cook, A.H. *et al.*, *J.C.S.*, 1948, 201, *(use)*
Peabody, R.A. *et al.*, *J.A.C.S.*, 1954, **76**, 5258, *(use)*
Hartman, S.C. *et al.*, *J.A.C.S.*, 1955, **77**, 501, *(use)*
Peabody, R.A. *et al.*, *J. Biol. Chem.*, 1956, **221**, 1071, *(use)*
Japan. Pat., 1973, 73 01 049; *CA*, **79**, 5603q, *(synth)*