



>>Entry Name: Methylurea, 9CI

Synonym(s): Methylcarbamide

CAS Registry Number: 598-50-5

MeNHCONH₂

Molecular Formula: C₂H₆N₂O

Molecular Weight: 74.082

Accurate Mass: 74.048013

Percentage Composition: C 32.43%; H 8.16%; N 37.81%; O 21.60%

Physical Description: Prisms (H₂O or EtOH)

Melting Point: Mp 102°

Solubility: V. sol. H₂O

pKa Value: pK_a 0.9 (25°)

Other Data: Neutral

Aldrich: M8680-4

Fluka: 67090

Sigma: M2894

>>Derivative: Hydrochloride

Melting Point: Mp 85-87 approx.°

>>Derivative: Ac

Synonym(s): *N*-[(Methylamino)carbonyl]acetamide, 9CI. *N*¹-Acetyl-*N*²-methylurea

CAS Registry Number: 623-59-6

Molecular Formula: C₄H₈N₂O₂

Molecular Weight: 116.119

Accurate Mass: 116.058578

Percentage Composition: C 41.37%; H 6.94%; N 24.12%; O 27.56%

Physical Description: Prisms (H₂O)

Melting Point: Mp 180-181°

Solubility: Spar. sol. EtOH, Et₂O

Rare Chemicals Library: S41186-8

>>Derivative: *N*-Nitroso

References:

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Young, G., *J.C.S.*, 1898, **73**, 364, (*Ac*)

Davis, T.L. *et al.*, *J.A.C.S.*, 1929, **51**, 1797, (*synth*)

Boivin, J.L. *et al.*, *Can. J. Chem.*, 1951, **29**, 478, (*synth*)

Kondo, Y. *et al.*, *J.O.C.*, 1968, **33**, 206, (*synth*)

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