



>>Entry Name: Ethylurea, 9CI

CAS Registry Number: 625-52-5
EtNHCONH₂

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%
Physical Description: Needles (EtOH/Et₂O)
Melting Point: Mp 92°
Solubility: Sol. H₂O, EtOH; insol. Et₂O
Hazard & Toxicity: Fl. p. >93°

Aldrich: E5100-7
Fluka: 3970

>>Derivative: Nitrate

Physical Description: Prisms
Melting Point: Mp 55-60°

>>Derivative: Oxalate

Physical Description: Plates
Melting Point: Mp 55-60°

>>Derivative: *N*'-Me

Synonym(s): *N*-Ethyl-*N*'-methylurea, 9CI

CAS Registry Number: 28145-10-0
Molecular Formula: C₄H₁₀N₂O
Molecular Weight: 102.136
Accurate Mass: 102.079313
Percentage Composition: C 47.04%; H 9.87%; N 27.43%; O 15.66%
Melting Point: Mp 52-53°
Boiling Point: Bp 266-268°

>>Derivative: *N*'-Hydroxy

Synonym(s): *N*-Ethyl-*N*'-hydroxyurea, 9CI. 1-Ethyl-3-hydroxyurea, 8CI. Ethylcarbamyhydroxylamine

CAS Registry Number: 5710-11-2

Molecular Formula: C₃H₈N₂O₂
Molecular Weight: 104.108
Accurate Mass: 104.058578
Percentage Composition: C 34.61%; H 7.75%; N 26.91%; O 30.74%
Use/Importance: Has antitumour activity
Physical Description: Cryst. (CHCl₃)
Melting Point: Mp 124-126° (129° dec.)
Solubility: Sol. H₂O, Et₂O; mod. sol. EtOH; insol. hexane
Calculated Log P Data: Log P -0.75 (calc)

>>Derivative: *N*-Nitroso

Synonym(s): *N*-Ethyl-*N*-nitrosourea. ENU

CAS Registry Number: 759-73-9
Molecular Formula: C₃H₇N₃O₂
Molecular Weight: 117.107
Accurate Mass: 117.053827
Percentage Composition: C 30.77%; H 6.02%; N 35.88%; O 27.32%
Hazard & Toxicity: Probable human carcinogen. Exp. carcinogen and transplacental teratogen. LD₅₀ (rat, orl) 300 mg/kg

Sigma: N8509

References: