



>>Entry Name: *N*-Methyl-*N*-nitrosourea, 9CI

CAS Registry Number: 684-93-5

Extra CAS Registry Numbers(s): 820-60-0
H2NCONMeNO

Molecular Formula: C2H5N3O2

Molecular Weight: 103.08

Accurate Mass: 103.038177

Percentage Composition: C 23.30%; H 4.89%; N 40.76%; O 31.04%

Use/Importance: Laboratory source of Diazomethane [CZN91-B](#) (alternatives preferable because of carcinogenicity)

Physical Description: Yellow solid or plates (Et₂O)

Melting Point: Mp 124 dec.°

Hazard & Toxicity: May explode after storage at ambient temp. Probable human carcinogen. LD₅₀ (rat, orl) 110 mg/kg. Exp. carcinogen and teratogen. Exp. reprod. effects

Sigma: N9757

References:

Org. Synth., Coll. Vol., 2, 1943, 461; 462, (*synth*)

Huisgen, R. *et al.*, *Annalen*, 1956, **599**, 161, (*synth*)

IARC Monog., 1978, **17**, 227; *Suppl.* 7, 66, (*rev, tox*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, MNA750

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 0822

Luxon, S.G., *Hazards in the Chemical Laboratory*, 5th edn., Royal Society of Chemistry, 1992, 857