



>>Entry Name: Diethylnitrosamine

Synonym(s): *N*-Ethyl-*N*-nitrosoethanamine, 9CI. *N*-Nitrosodiethylamine. DEN

CAS Registry Number: 55-18-5

Et₂NNO

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%

Physical Description: Yellow oil

Boiling Point: Bp 177°

Solubility: Sol. H₂O

Hazard & Toxicity: Probable human carcinogen. LD₅₀ (rat, orl) 280 mg/kg. Exp. carcinogen and teratogen. Exp. reprod. effects. Hepatotoxic

Fluka: 73861

Rare Chemicals Library: S51636-8

Sigma: N0258

Supelco: R47-2170

References:

Sander, J., *Hoppe Seyler's Z. Physiol. Chem.*, 1967, **348**, 852, (*synth*)

Lovejoy, D.J. *et al.*, *J.C.S.(A)*, 1968, 2325, (*synth, pmr*)

Franck, B. *et al.*, *Angew. Chem., Int. Ed.*, 1970, **9**, 892, (*synth*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1975, **5**, 479

Gehlert, P. *et al.*, *Experientia*, 1977, **33**, 579, (*synth*)

Stefaniak, L., *Tetrahedron*, 1977, **33**, 2571, (*nmr*)

IARC Monog., 1978, **17**, 83; *Suppl.* 7, 67, (*rev, tox*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, NJW500