



>>Entry Name: Methyl nitrite, 9CI

CAS Registry Number: 624-91-9
MeONO

Molecular Formula: CH₃NO₂

Molecular Weight: 61.04

Accurate Mass: 61.016379

Percentage Composition: C 19.68%; H 4.95%; N 22.95%; O 52.42%

Use/Importance: Nitrosating agent

Physical Description: Gas

Boiling Point: Bp 12°

Density: d¹⁵ 0.0991

Hazard & Toxicity: Explodes on heating. High conc. narcotic

References:

Adickes, F., *J. Prakt. Chem.*, 1943, **161**, 271, (*synth*)

Fieser and Fieser's *Reagents for Organic Synthesis*, Wiley, 1967, **1**, 691

Andersson, L.O. *et al.*, *J.C.S.(A)*, 1970, 296, (*N-14 nmr*)

Andersson, L.O. *et al.*, *J.C.S. Dalton*, 1974, 202, (*O-17 nmr*)

Turner, P.H. *et al.*, *J. Phys. Chem.*, 1979, **83**, 1473, (*struct*)

Rook, F.L. *et al.*, *J. Mol. Spectrosc.*, 1982, **93**, 101, (*ir*)

Burgers, P.C. *et al.*, *Org. Mass Spectrom.*, 1984, **19**, 452, (*ms*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, MMF750

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