



>>Entry Name: Ethyl nitrite, 9CI, 8CI

ENTRY UNDER REVIEW

Synonym(s): Nitrosyl ethoxide. FEMA 2446

CAS Registry Number: 109-95-5

EtONO

Molecular Formula: C₂H₅NO₂

Molecular Weight: 75.067

Accurate Mass: 75.032029

Percentage Composition: C 32.00%; H 6.71%; N 18.66%; O 42.63%

Physical Description: Very volatile liq. or gas with a characteristic ether-like odour

Boiling Point: Bp 17°

Solubility: V. sl. sol. H₂O, sol. EtOH

Hazard & Toxicity: High vapour conc. narcotic. LC₅₀ (rat, ihl) 160 ppm (4h exposure). Explodes if heated or shocked. Extremely flammable; fl. p. -35°, autoignition temp. 90 °.

Aldrich: 30992-3

References:

Chrétien, A. *et al.*, *C. R. Hebd. Seances Acad. Sci.*, 1943, **217**, 504, (*synth*)

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

Krueger, J.R. *et al.*, *J.O.C.*, 1978, **43**, 2877, (*ir, pmr, cmr*)

Macdonald, J.C. *et al.*, *Acta Chem. Scand., Ser. B*, 1981, **35**, 485, (*tox*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1990, **15**, 156, (*use*)

Fenaroli's Handbook of Flavor Ingredients, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, **2**, 256

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Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 0814

Luxon, S.G., *Hazards in the Chemical Laboratory*, 5th edn., Royal Society of Chemistry, 1992, 613

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