



>>Entry Name: Methyl nitrate, 9CI

CAS Registry Number: 598-58-3

MeONO₂

Molecular Formula: CH₃NO₃

Molecular Weight: 77.04

Accurate Mass: 77.011294

Percentage Composition: C 15.59%; H 3.92%; N 18.18%; O 62.30%

Use/Importance: Nitrating agent

Boiling Point: Bp 65°

Density: d²⁵ 1.2

Hazard & Toxicity: Shock- and heat-sensitive. Explodes at Bp, and if heated in presence of acid. LD₅₀ (rat, orl) 344 mg/kg (acute tox. lower in mouse)

References:

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Maria, H.J. *et al.*, *J.A.C.S.*, 1973, 95, 1050, (uv)

Chew, K.F. *et al.*, *J.C.S. Dalton*, 1975, 1315, (N-14 nmr)

Adamson, P. *et al.*, *Spectrochim. Acta A*, 1980, 36, 473, (ir)

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