



>>Entry Name: Chloronitromethane

CAS Registry Number: 1794-84-9

ClCH2NO2

Molecular Formula: CH₂ClNO₂

Molecular Weight: 95.485

Accurate Mass: 94.977406

Percentage Composition: C 12.58%; H 2.11%; Cl 37.13%; N 14.67%; O 33.51%

Physical Description: Liq.

Boiling Point: Bp 122-123°. Bp₆₀ 58-62°

Solubility: Sol. alkalis; mod. sol. H₂O

Density: d₄²⁰ 1.4631

pKa Value: pK_a 7.2 (25°)

Refractive Index: n_D²⁵ 1.4385

Hazard & Toxicity: Hazardous synth.; explosion reported

References:

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Steinkopf, W. *et al.*, *Ber.*, 1942, **75**, 1323, (*synth*)

Gluzinski, P. *et al.*, *Spectrochim. Acta A*, 1968, **24**, 1777, (*ir, Raman*)

Heasley, V.L. *et al.*, *Tet. Lett.*, 1971, 4819, (*synth*)

Sadova, N.I. *et al.*, *Zh. Strukt. Khim.*, 1972, **13**, 763; *J. Struct. Chem. (Engl. Transl.)*, 1972, **13**, 717, (*ed*)

Stirling, C.J.M., *Chem. Br.*, 1986, **22**, 524, (*haz*)

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