



>>>Entry Name: Tripropylamine, 8Cl

Synonym(s): *N,N*-Dipropylpropanamine, 9Cl

CAS Registry Number: 102-69-2

$(\text{H}_3\text{CCH}_2\text{CH}_2)_3\text{N}$

Molecular Formula: $\text{C}_9\text{H}_{21}\text{N}$

Molecular Weight: 143.272

Accurate Mass: 143.167399

Percentage Composition: C 75.45%; H 14.77%; N 9.78%

Use/Importance: Used as a titrant for the detn. of weak acids in the presence of their anhydrides

Physical Description: Liq.

Melting Point: Mp -94°

Boiling Point: Bp 156.5° . Bp₁₄ $46-48^\circ$

Hazard & Toxicity: Irritating and corrosive to eyes, skin and mucous membranes. LD₅₀ (rat, orl) 72 mg/kg. LD₅₀ (rbt, skn) 429 mg/kg. Flammable, fl. p. 41°

Aldrich: 14397-9

Fluka: 93240

>>>Derivative: Hydrochloride

CAS Registry Number: 14488-44-9

Physical Description: Hygroscopic needles

Melting Point: Mp 90°

>>>Derivative: Hydrobromide

CAS Registry Number: 7359-95-7

Physical Description: Needles

Melting Point: Mp 180°

>>>Derivative: Methiodide

Synonym(s): Methyltripropylammonium iodide

Physical Description: Leaflets (EtOH/Et₂O)

Melting Point: Mp $207-208^\circ$

>>>Derivative: Ethiodide

CAS Registry Number: 15066-80-5

Physical Description: Cryst.

Melting Point: Mp $240-240.4^\circ$

>>>Derivative: Butyl bromide

CAS Registry Number: 61175-77-7

Melting Point: Mp 221 dec.°

Aldrich: 28038-0

>>>Derivative: Picrate

Melting Point: Mp 116°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 300B, (*ir*)

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **1**, 482B, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 384B, (*ir*)

Skita, A. *et al.*, *Monatsh. Chem.*, 1929, **53-4**, 753, (*synth*)

Siggia, S. *et al.*, *Anal. Chem.*, 1953, **25**, 797, (*use*)

Striegler, A. *et al.*, *J. Prakt. Chem.*, 1965, **29**, 281, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, TMY250