



>>Entry Name: Triethylamine, 8Cl
Synonym(s): *N,N*-Diethylethanamine, 9Cl

CAS Registry Number: 121-44-8
Related CAS Registry Numbers(s): 17440-81-2

Et₃N

Molecular Formula: C₆H₁₅N
Molecular Weight: 101.191
Accurate Mass: 101.120449
Percentage Composition: C 71.22%; H 14.94%; N 13.84%
Use/Importance: Useful org. base. Used as 1,2-dichloroethane soln. for extraction-photometric detn. of Ti (ε 80000, thiocyanate complex)
Physical Description: Liq. with fishy odour
Melting Point: Mp −114.75°
Boiling Point: Bp 89.4°
Density: d₄²⁰ 0.7275
pKa Value: pK_a 11.01 (18°, H₂O)
Refractive Index: n_D²⁰ 1.4010

Hazard & Toxicity: Highly flammable, fl. p. −7°, autoignition temp. 249°. Skin, respiratory tract and severe eye irritant. Prolonged or repeated exposure can damage liver and kidneys. LD₅₀ (rat, orl) 460 mg/kg. LD₅₀ (rbt, skn) 570 mg/kg. OES: long-term 10 ppm; short-term 15 ppm

Aldrich: 47128-3
Fluka: 90335
Sigma: T0886

>>Derivative: Hydrofluoride (1:3)

CAS Registry Number: 73602-61-6
Use/Importance: Fluorinating agent
Physical Description: Hygroscopic solid or oil
Melting Point: Fp 87°
Boiling Point: Bp₁₅ 70°
Refractive Index: n_D²⁰ 1.3915
Aldrich: 34464-8
Fluka: 90355

>>Derivative: Hydrochloride

CAS Registry Number: 554-68-7
Physical Description: Cryst. (EtOH)
Melting Point: Mp 253-254°

Aldrich: 26815-1
Fluka: 90350
Sigma: T8521

>>Derivative: Hydrobromide

CAS Registry Number: 636-70-4
Physical Description: Cryst. (CHCl₃ or EtOH)
Melting Point: Mp 248°

>>Derivative: Hydroiodide

CAS Registry Number: 4636-73-1
Physical Description: Cryst.
Melting Point: Mp 181°

>>Derivative: Methobromide

CAS Registry Number: 2700-16-5
Melting Point: Mp 307 dec.°
Aldrich: 35877-0
Fluka: 90485