



>>Entry Name: Tetraethylammonium(1+), 8Cl

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

CAS Registry Number: 66-40-0

Related CAS Registry Numbers(s): 429-06-1 733-44-8 98330-04-2

Et₄N⁽⁺⁾

Molecular Formula: C₈H₂₀N⁽⁺⁾

Molecular Weight: 130.253

Accurate Mass: 130.159574

Percentage Composition: C 73.77%; H 15.48%; N 10.75%

Use/Importance: Various salts are used as ion sources which are sol. in org. solvs.

>>Derivative: Fluoride

CAS Registry Number: 665-46-3

Molecular Formula: C₈H₂₀FN

Molecular Weight: 149.251

Accurate Mass: 149.157977

Percentage Composition: C 64.38%; H 13.51%; F 12.73%; N 9.38%

Use/Importance: Reagent for deprotecting amino groups. Fluoride ion source. Cleaves Si-C bonds

Physical Description: Dihydrate

Fluka: 86615

>>Derivative: Chloride

Synonym(s): Etamon chloride

CAS Registry Number: 56-34-8

Molecular Formula: C₈H₂₀ClN

Molecular Weight: 165.705

Accurate Mass: 165.128426

Percentage Composition: C 57.99%; H 12.16%; Cl 21.40%; N 8.45%

Use/Importance: Used for dehydrohalogenations

Physical Description: V. hygroscopic cryst.

Solubility: V. sol. H₂O, EtOH, CHCl₃, Me₂CO

Hazard & Toxicity: LD₅₀ (rat, orl) 2630 mg/kg

Aldrich: 11304-2

Fluka: 86611

Sigma: T3286

>>Derivative: Chloride, tetrahydrate

CAS Registry Number: 6024-76-6

Physical Description: Prisms

Melting Point: Mp 37.5°

>>Derivative: Bromide

Synonym(s): Tetrylammonium bromide, INN. Tetranium

CAS Registry Number: 71-91-0

Molecular Formula: C₈H₂₀BrN

Molecular Weight: 210.157

Accurate Mass: 209.09791

Percentage Composition: C 45.72%; H 9.59%; Br 38.02%; N 6.66%

Use/Importance: Ganglion blocking agent

Physical Description: Cryst. (EtOH)

Melting Point: Mp 285 dec.°

Solubility: V. sol. H₂O, EtOH, CHCl₃

Hazard & Toxicity: LD₅₀ (rat, ipr) 108 mg/kg. LD₅₀ (mus, orl) >2000 mg/kg

Aldrich: 24105-9

Fluka: 86608

Sigma: T7012