



>>Entry Name: Tetrapropylammonium(1+)

Synonym(s): *N,N,N*-Tripropyl-1-propanaminium(1+), 9Cl

CAS Registry Number: 13010-31-6

Related CAS Registry Numbers(s): 5810-42-4 15553-52-3 15780-02-6
(H₃CCH₂CH₂)₄N⁽⁺⁾

Molecular Formula: C₁₂H₂₈N⁽⁺⁾

Molecular Weight: 186.36

Accurate Mass: 186.222174

Percentage Composition: C 77.34%; H 15.14%; N 7.52%

>>Derivative: Hydroxide

CAS Registry Number: 4499-86-9

Molecular Formula: C₁₂H₂₉NO

Molecular Weight: 203.367

Accurate Mass: 203.224914

Percentage Composition: C 70.87%; H 14.37%; N 6.89%; O 7.87%

Use/Importance: Used for extraction-photometric detn. of U ($\lambda_{\max}$ 452 nm, 4-methyl-2-pentanone), extraction of Tc

Physical Description: Cryst.

Aldrich: 25453-3

Fluka: 88112

Sigma: T8895

>>Derivative: Bromide

CAS Registry Number: 1941-30-6

Molecular Formula: C₁₂H₂₈BrN

Molecular Weight: 266.264

Accurate Mass: 265.16051

Percentage Composition: C 54.13%; H 10.60%; Br 30.01%; N 5.26%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 270° (dec.)

Aldrich: 22556-8

Fluka: 88105

>>Derivative: Iodide

CAS Registry Number: 631-40-3

Molecular Formula: C₁₂H₂₈IN

Molecular Weight: 313.264

Accurate Mass: 313.126647

Percentage Composition: C 46.01%; H 9.01%; I 40.51%; N 4.47%

Melting Point: Mp 283 dec.°

Aldrich: 23595-4

Fluka: 88120

Rare Chemicals Library: S56363-3

>>Derivative: Perchlorate

CAS Registry Number: 15780-02-6

Molecular Formula: C₁₂H₂₈ClNO₄

Molecular Weight: 285.81

Accurate Mass: 285.170686

Percentage Composition: C 50.43%; H 9.87%; Cl 12.40%; N 4.90%; O 22.39%

Use/Importance: Electrolyte

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 240-242°

Other: Fluka 88121, 88122