



>>Entry Name: Tetrapentylammonium(1+)

Synonym(s): *N,N,N*-Tripentyl-1-pentanaminium, 9Cl. Tetraamylammonium

CAS Registry Number: 15959-61-2

$(\text{H}_3\text{CCH}_2\text{CH}_2\text{CH}_2\text{CH}_2)_4\text{N}^{(+)}$

Molecular Formula: $\text{C}_{20}\text{H}_{44}\text{N}^{(+)}$

Molecular Weight: 298.574

Accurate Mass: 298.347374

Percentage Composition: C 80.46%; H 14.85%; N 4.69%

>>Derivative: Chloride

CAS Registry Number: 4965-17-7

Molecular Formula: $\text{C}_{20}\text{H}_{44}\text{ClN}$

Molecular Weight: 334.027

Accurate Mass: 333.316226

Percentage Composition: C 71.92%; H 13.28%; Cl 10.61%; N 4.19%

Other Data: No Mp reported

Aldrich: 25896-2

Fluka: 88006

>>Derivative: Bromide

CAS Registry Number: 866-97-7

Molecular Formula: $\text{C}_{20}\text{H}_{44}\text{BrN}$

Molecular Weight: 378.478

Accurate Mass: 377.28571

Percentage Composition: C 63.47%; H 11.72%; Br 21.11%; N 3.70%

Melting Point: Mp 100-101°

Aldrich: 24197-0

Fluka: 87997

Sigma: T4291

>>Derivative: Iodide

CAS Registry Number: 2498-20-6

Molecular Formula: $\text{C}_{20}\text{H}_{44}\text{IN}$

Molecular Weight: 425.479

Accurate Mass: 425.251847

Percentage Composition: C 56.46%; H 10.42%; I 29.83%; N 3.29%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 137-139°

Aldrich: 35920-3

Fluka: 88003

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 611A, (*nmr*)

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Vernon, A.A. *et al.*, *J.A.C.S.*, 1942, **64**, 2822, (*synth*)

Isa, K. *et al.*, *Org. Mass Spectrom.*, 1983, **18**, 229, (*ms*)

Evans, D.J. *et al.*, *Magn. Reson. Chem.*, 1990, **28**, 711, (*cmr*)

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