



>>Entry Name: Tetrakis(2-hydroxyethyl)ammonium(1+), 8Cl

Synonym(s): 2-Hydroxy-*N,N,N*-tris(2-hydroxyethyl)ethanaminium, 9Cl. Tetraethanolammonium

CAS Registry Number: 26627-39-4

(HOCH₂CH₂)₄N⁽⁺⁾

Molecular Formula: C₈H₂₀NO₄⁽⁺⁾

Molecular Weight: 194.25

Accurate Mass: 194.139234

Percentage Composition: C 49.47%; H 10.38%; N 7.21%; O 32.95%

Use/Importance: Dyeing auxiliary

>>Derivative: Hydroxide

CAS Registry Number: 631-41-4

Molecular Formula: C₈H₂₁NO₅

Molecular Weight: 211.258

Accurate Mass: 211.141974

Percentage Composition: C 45.48%; H 10.02%; N 6.63%; O 37.87%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 123°

Rare Chemicals Library: S64853-1

>>Derivative: Fluoride

Molecular Formula: C₈H₂₀FNO₄

Molecular Weight: 213.249

Accurate Mass: 213.137637

Percentage Composition: C 45.06%; H 9.45%; F 8.91%; N 6.57%; O 30.01%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 195°

>>Derivative: Chloride

CAS Registry Number: 13269-66-4

Molecular Formula: C₈H₂₀ClNO₄

Molecular Weight: 229.703

Accurate Mass: 229.108086

Percentage Composition: C 41.83%; H 8.78%; Cl 15.43%; N 6.10%; O 27.86%

Physical Description: Cryst.

>>Derivative: Bromide

CAS Registry Number: 4328-04-5

Molecular Formula: C₈H₂₀BrNO₄

Molecular Weight: 274.154

Accurate Mass: 273.07757

Percentage Composition: C 35.05%; H 7.35%; Br 29.15%; N 5.11%; O 23.34%

Physical Description: Cryst. (EtOH/CHCl₃)

Melting Point: Mp 102°

>>Derivative: Iodide

CAS Registry Number: 13622-99-6

Molecular Formula: C₈H₂₀INO₄

Molecular Weight: 321.155

Accurate Mass: 321.043707

Percentage Composition: C 29.92%; H 6.28%; I 39.52%; N 4.36%; O 19.93%

Physical Description: Cryst.

References:

U.K. Pat., 1937, 460 146; *CA*, **31**, 4678⁹, (*chloride*)

Wen, W.-Y. *et al.*, *J. Phys. Chem.*, 1965, **69**, 3569, (*bromide, fluoride*)

Evans, D.F. *et al.*, *J. Phys. Chem.*, 1966, **70**, 2974, (*bromide, iodide*)

Ger. Pat., 1971, 2 042 860; *CA*, **75**, 151346s, (*hydroxide*)

Domaux, A.R. *et al.*, *J.O.C.*, 1973, **38**, 3630, (*hydroxide*)