



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

Synonym(s): *N,N,N*-Trimethyl-1-tetradecanaminium. Tetradonium

CAS Registry Number: 10182-92-0

Related CAS Registry Numbers(s): 4574-04-3 8044-71-1

$\text{H}_3\text{C}(\text{CH}_2)_{13}\text{NMe}_3^{(+)}$

Molecular Formula: $\text{C}_{17}\text{H}_{38}\text{N}^{(+)}$

Molecular Weight: 256.494

Accurate Mass: 256.300424

Percentage Composition: C 79.61%; H 14.93%; N 5.46%

>>Derivative: Chloride

CAS Registry Number: 4574-04-3

Molecular Formula: $\text{C}_{17}\text{H}_{38}\text{ClN}$

Molecular Weight: 291.947

Accurate Mass: 291.269276

Percentage Composition: C 69.94%; H 13.12%; Cl 12.14%; N 4.80%

Biological Use/Importance: Bactericide

Physical Description: Cryst.

Melting Point: Mp 241° (dec.)

>>Derivative: Bromide

Synonym(s): Tetradonium bromide, INN. Morpam T. Mytab

CAS Registry Number: 1119-97-7

Molecular Formula: $\text{C}_{17}\text{H}_{38}\text{BrN}$

Molecular Weight: 336.398

Accurate Mass: 335.23876

Percentage Composition: C 60.70%; H 11.39%; Br 23.75%; N 4.16%

Use/Importance: Cationic detergent. Preservative

Biological Use/Importance: Antiseptic

Physical Description: Cryst. ($\text{Me}_2\text{CO/EtOH}$)

Melting Point: Mp 244-255°

Other Data: Major component of Cetrimide, BAN

Hazard & Toxicity: Adverse gastrointestinal effects by ingestion. Hypersensitivity reactions following topical use reported

Aldrich: 86042-5

Fluka: 87210

Sigma: M7260

References:

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