



>>Entry Name: Trimethyloctylammonium(1+)

Synonym(s): *N,N,N*-Trimethyl-1-octanaminium, 9Cl

CAS Registry Number: 15461-38-8

Related CAS Registry Numbers(s): 10108-86-8

$\text{H}_3\text{C}(\text{CH}_2)_7\text{N}^{(+)}\text{Me}_3$

Molecular Formula: $\text{C}_{11}\text{H}_{26}\text{N}$

Molecular Weight: 172.333

Accurate Mass: 172.206524

Percentage Composition: C 76.67%; H 15.21%; N 8.13%

>>Derivative: Bromide

CAS Registry Number: 2083-68-3

Molecular Formula: $\text{C}_{11}\text{H}_{26}\text{BrN}$

Molecular Weight: 252.237

Accurate Mass: 251.14486

Percentage Composition: C 52.38%; H 10.39%; Br 31.68%; N 5.55%

Physical Description: Cryst. (Me_2CO)

Melting Point: Mp 215-217°

>>Derivative: Iodide

CAS Registry Number: 14251-76-4

Molecular Formula: $\text{C}_{11}\text{H}_{26}\text{IN}$

Molecular Weight: 299.238

Accurate Mass: 299.110997

Percentage Composition: C 44.15%; H 8.76%; I 42.41%; N 4.68%

Physical Description: Cryst. ($\text{EtOH/Et}_2\text{O}$)

Melting Point: Mp 138°

References:

von Braun, J. *et al.*, *Annalen*, 1911, **382**, 1-49, (*iodide*)

McDowell, M.J. *et al.*, *J.A.C.S.*, 1951, **73**, 2170-2173, (*bromide*)

Schlosser, M. *et al.*, *Helv. Chim. Acta*, 1977, **60**, 3060-3068, (*bromide*)