



>>Entry Name: Dimethylditetradecylammonium(1+)

Synonym(s): *N,N*-Dimethyl-*N*-tetradecyl-1-tetradecanaminium, 9Cl

CAS Registry Number: 20256-58-0

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

Molecular Formula: $\text{C}_{30}\text{H}_{64}\text{N}^{(+)}$

Molecular Weight: 438.842

Accurate Mass: 438.503874

Percentage Composition: C 82.11%; H 14.70%; N 3.19%

>>Derivative: Bromide

CAS Registry Number: 68105-02-2

Molecular Formula: $\text{C}_{30}\text{H}_{64}\text{BrN}$

Molecular Weight: 518.746

Accurate Mass: 517.44221

Percentage Composition: C 69.46%; H 12.43%; Br 15.40%; N 2.70%

Use/Importance: Surfactant, used in lipid bilayer models

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 167-169°

References:

Okuyama, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1988, **61**, 2337-2341, (*bromide, cryst struct*)

Ueoka, R. *et al.*, *J.A.C.S.*, 1988, **110**, 1588-1595, (*bromide, synth, props*)

St. Alami, E. *et al.*, *Liq. Cryst.*, 1993, **13**, 201-212, (*props, synth*)