



>>Entry Name: Didecyldimethylammonium(1+)

Synonym(s): *N*-Decyl-*N,N*-dimethyl-1-decanaminium(1+), 9Cl

CAS Registry Number: 20256-56-8

$[\text{H}_3\text{C}(\text{CH}_2)_9]_2\text{NMe}_2^{(+)}$

Molecular Formula: $\text{C}_{22}\text{H}_{48}\text{N}^{(+)}$

Molecular Weight: 326.628

Accurate Mass: 326.378674

Percentage Composition: C 80.90%; H 14.81%; N 4.29%

>>Derivative: Chloride

Synonym(s): Bardac 22

CAS Registry Number: 7173-51-5

Molecular Formula: $\text{C}_{22}\text{H}_{48}\text{ClN}$

Molecular Weight: 362.081

Accurate Mass: 361.347526

Percentage Composition: C 72.98%; H 13.36%; Cl 9.79%; N 3.87%

Use/Importance: Biocide. Medicinal disinfectant

Physical Description: Hygroscopic cryst.

>>Derivative: Bromide

CAS Registry Number: 2390-68-3

Molecular Formula: $\text{C}_{22}\text{H}_{48}\text{BrN}$

Molecular Weight: 406.532

Accurate Mass: 405.31701

Percentage Composition: C 65.00%; H 11.90%; Br 19.66%; N 3.45%

Melting Point: Mp 70-74°

Aldrich: 29801-8

Fluka: 36750

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 612C, (*nmr*)

Ralston, A.W. *et al.*, *J.A.C.S.*, 1948, **70**, 977, (*chloride*)

Ralston, A.W. *et al.*, *J.O.C.*, 1948, **13**, 186, (*chloride*)

Resuggan, J.C.L., *J. Appl. Chem.*, 1951, **1**, 586, (*bromide*)

Hueck, H.J. *et al.*, *Appl. Microbiol.*, 1966, **14**, 308, (*chloride*)

Gueller, S. *et al.*, *Seifen, Oele, Fette, Wachse*, 1988, **114**, 169; *CA*, **109**, 79522x, (*rev*)

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