



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

Synonym(s): *N,N*-Dimethyl-*N*-octadecylbenzenemethanaminium, 9Cl

$\text{PhCH}_2\text{N}^{(+)}\text{Me}_2(\text{CH}_2)_{17}\text{CH}_3$

Molecular Formula: $\text{C}_{27}\text{H}_{50}\text{N}^{(+)}$

Molecular Weight: 388.699

Accurate Mass: 388.394324

Percentage Composition: C 83.43%; H 12.97%; N 3.60%

>>Derivative: Chloride

CAS Registry Number: 122-19-0

Molecular Formula: $\text{C}_{27}\text{H}_{50}\text{ClN}$

Molecular Weight: 424.151

Accurate Mass: 423.363176

Percentage Composition: C 76.46%; H 11.88%; Cl 8.36%; N 3.30%

Use/Importance: Used as an active ingredient in hair conditioners and as a germicide in contraceptive formulations

Melting Point: Mp 57° (dihydrate)

References:

Japan. Pat., 1965, 26 338; *CA*, **64**, 9636, (*chloride, synth*)

Kirk-Othmer Encycl. Chem. Technol., 4th edn., Wiley, 1991, **20**, 739, (*chloride, uses*)