



>>Entry Name: Dimethyloctadecyl[3-(trimethoxysilyl)propyl]ammonium(1+), 8Cl

Synonym(s): *N,N*-Dimethyl-*N*-[3-(trimethoxysilyl)propyl]-1-octadecanaminium, 9Cl. Durotex 7603. SiQAC

CAS Registry Number: 92182-06-4

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

Molecular Formula: $\text{C}_{26}\text{H}_{58}\text{NO}_3\text{Si}^{(+)}$

Molecular Weight: 460.835

Accurate Mass: 460.418596

Percentage Composition: C 67.77%; H 12.69%; N 3.04%; O 10.42%; Si 6.09%

Other Data: Strictly the trade names refer to the chloride

>>Derivative: Chloride

CAS Registry Number: 27668-52-6

Molecular Formula: $\text{C}_{26}\text{H}_{58}\text{ClNO}_3\text{Si}$

Molecular Weight: 496.287

Accurate Mass: 495.387448

Percentage Composition: C 62.92%; H 11.78%; Cl 7.14%; N 2.82%; O 9.67%; Si 5.66%

Use/Importance: Used in the prep. of irreversible antimicrobial surface coatings

References:

Ger. Pat., 1970, 1 955 023; *CA*, **73**, 28419z, (*synth*)

Isquith, A.J. *et al.*, *Appl. Microbiol.*, 1972, **24**, 859-863; 1973, **25**, 253-256, (*props*)

Speier, J.L. *et al.*, *J. Colloid Interface Sci.*, 1982, **89**, 68-76, (*props*)

Leyden, D.E. *et al.*, *Anal. Chim. Acta*, 1987, **200**, 459-468, (*ir*)

Huettinger, K.J. *et al.*, *Chem.-Ztg.*, 1990, **114**, 161-165, (*synth, props*)