



>>Entry Name: Hexadecyldimethyl(3-sulfopropyl)ammonium(1+), 8Cl

Synonym(s): *N,N*-Dimethyl-*N*-(3-sulfopropyl)-1-hexadecanaminium, 9Cl

CAS Registry Number: 108930-53-6

$\text{H}_3\text{C}(\text{CH}_2)_{15}\text{N}^{(+)}\text{Me}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{SO}_3\text{H}$

Molecular Formula: $\text{C}_{21}\text{H}_{46}\text{NO}_3\text{S}^{(+)}$

Molecular Weight: 392.665

Accurate Mass: 392.319839

Percentage Composition: C 64.24%; H 11.81%; N 3.57%; O 12.22%; S 8.17%

>>Derivative: Inner salt

Synonym(s): Sulfobetaine 16

CAS Registry Number: 2281-11-0

Molecular Formula: $\text{C}_{21}\text{H}_{45}\text{NO}_3\text{S}$

Molecular Weight: 391.657

Accurate Mass: 391.312014

Percentage Composition: C 64.40%; H 11.58%; N 3.58%; O 12.26%; S 8.19%

Use/Importance: Surfactant

References:

Fernley, G.W. *et al.*, *J. Am. Oil Chem. Soc.*, 1978, **55**, 98-103, (*use*)

Nandakumar, T.N. *et al.*, *J. Oil Technol. Assoc. India (Bombay)*, 1979, **11**, 31-34, (*synth, use*)