



>>Entry Name: 3-(Trimethylsilyl)-1-propanesulfonic acid, 9CI

Synonym(s): 4,4-Dimethyl-4-sila-1-pentanesulfonic acid

$\text{Me}_3\text{SiCH}_2\text{CH}_2\text{CH}_2\text{SO}_3\text{H}$

Molecular Formula: $\text{C}_6\text{H}_{16}\text{O}_3\text{Si}$

Molecular Weight: 196.342

Accurate Mass: 196.058942

Percentage Composition: C 36.70%; H 8.21%; O 24.45%; S 16.33%; Si 14.30%

>>Derivative: Na salt

Synonym(s): DSS

CAS Registry Number: 2039-96-5

Use/Importance: Pmr standard; reagent for detn. of Hg

Physical Description: Hydrated cryst.

Melting Point: Mp 125 dec.°

Solubility: Sol. H_2O

Aldrich: 17883-7

Fluka: 92754

Sigma: T8636

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1118A, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 1003A, (*nmr*)

Donaldson, B.R. *et al.*, *J.C.S.(B)*, 1968, 395, (*pmr*)

Live, D.H. *et al.*, *Org. Magn. Reson.*, 1973, **5**, 275, (*pmr*)

Koeberg-Telder, A. *et al.*, *J.C.S. Perkin 2*, 1975, 226, (*pmr*)

Mitchell, P.R. *et al.*, *Angew. Chem., Int. Ed.*, 1976, **15**, 548, (*pmr*)

Pachler, K.G.R. *et al.*, *Carbohydr. Res.*, 1976, **47**, 155, (*pmr*)

Lam, Y.F. *et al.*, *FEBS Lett.*, 1977, **78**, 181, (*nmr*)

De Marco, A., *J. Magn. Reson.*, 1977, **26**, 527, (*nmr*)

Cross, B.P. *et al.*, *Org. Magn. Reson.*, 1977, **10**, 82, (*nmr*)

Huckerby, T.N., *Org. Magn. Reson.*, 1983, **21**, 67, (*cmr*)