



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

CAS Registry Number: 5683-30-7

Me3SiCH2CH2COOH

Molecular Formula: C₆H₁₄O₂Si

Molecular Weight: 146.261

Accurate Mass: 146.076307

Percentage Composition: C 49.27%; H 9.65%; O 21.88%; Si 19.20%

Source/Synthesis: Synth. from Me3SiCH2CH2MgBr + CO₂

>>Derivative: Na salt

Synonym(s): TSP

CAS Registry Number: 37013-20-0

Extra CAS Registry Numbers(s): 24493-21-8

Use/Importance: Pmr standard for use with D₂O solns. or at high temps.

Physical Description: Solid

Melting Point: Mp 300°

Solubility: Sol. H₂O

Aldrich: 18033-5

Fluka: 92789

Sigma: T5762

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 683B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1114B, (*ir*)

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