



>>Entry Name: 2-(Dichloromethylsilyl)propanoic acid, 9Cl

Related CAS Registry Numbers(s): 18156-95-1

$\text{H}_3\text{CCH}(\text{SiCl}_2\text{Me})\text{COOH}$

Molecular Formula: $\text{C}_4\text{H}_8\text{Cl}_2\text{O}_2\text{Si}$

Molecular Weight: 187.097

Accurate Mass: 185.967061

Percentage Composition: C 25.68%; H 4.31%; Cl 37.90%; O 17.10%; Si 15.01%

>>Variant: ($\pm$)-form

Molecular Formula: $\text{C}_4\text{H}_8\text{Cl}_2\text{O}_2\text{Si}$

Molecular Weight: 187.097

Accurate Mass: 185.967061

Percentage Composition: C 25.68%; H 4.31%; Cl 37.90%; O 17.10%; Si 15.01%

>>Derivative: Me ester

CAS Registry Number: 18163-42-3

Molecular Formula: $\text{C}_5\text{H}_{10}\text{Cl}_2\text{O}_2\text{Si}$

Molecular Weight: 201.124

Accurate Mass: 199.982711

Percentage Composition: C 29.86%; H 5.01%; Cl 35.25%; O 15.91%; Si 13.96%

Source/Synthesis: Synth. from $\text{H}_2\text{C}=\text{CHCOOMe} + \text{MeSiHCl}_2$

Boiling Point: Bp_7 73-74°

Refractive Index: n_D^{25} 1.4420

>>Derivative: Nitrile

CAS Registry Number: 18147-77-8

Molecular Formula: $\text{C}_4\text{H}_7\text{Cl}_2\text{NSi}$

Molecular Weight: 168.097

Accurate Mass: 166.97248

Percentage Composition: C 28.58%; H 4.20%; Cl 42.18%; N 8.33%; Si 16.71%

Source/Synthesis: Synth. from $\text{H}_2\text{C}=\text{CHCN} + \text{MeSiHCl}_2$

Boiling Point: Bp_1 59-60°

Density: d_4^{26} 1.16

Refractive Index: n_D^{20} 1.4490

References:

Goodman, L. *et al.*, *J.A.C.S.*, 1957, **79**, 3073-3077, (*Me ester, synth, pmr*)

U.K. Pat., 1961, 882 101; *CA*, **57**, 866g, (*Me ester, synth*)

Nesmayanov, A.N. *et al.*, *Tetrahedron*, 1962, **17**, 61-68, (*nitrile, synth*)

Ojima, I *et al.*, *J. Organomet. Chem.*, 1976, **111**, 43-60, (*nitrile, synth, ir, pmr*)