



>>Entry Name: 4-(Trichlorosilyl)butanoic acid

$\text{Cl}_3\text{Si}(\text{CH}_2)_3\text{COOH}$

Molecular Formula: $\text{C}_4\text{H}_7\text{Cl}_3\text{O}_2\text{Si}$

Molecular Weight: 221.542

Accurate Mass: 219.928088

Percentage Composition: C 21.69%; H 3.18%; Cl 48.01%; O 14.44%; Si 12.68%

>>Derivative: Nitrile

Synonym(s): 4-(Trichlorosilyl)butanenitrile, 9Cl. Trichloro(3-cyanopropyl)silane

CAS Registry Number: 1071-27-8

Molecular Formula: $\text{C}_4\text{H}_6\text{Cl}_3\text{NSi}$

Molecular Weight: 202.542

Accurate Mass: 200.933507

Percentage Composition: C 23.72%; H 2.99%; Cl 52.51%; N 6.92%; Si 13.87%

Source/Synthesis: Synth. from $\text{HSiCl}_3 + \text{H}_2\text{C}=\text{CHCH}_2\text{CN}$ in presence of chloroplatinic acid

Physical Description: Liq.

Boiling Point: Bp_{12} 111-112°. Bp_8 93-94°

Density: d^{25} 1.29

Refractive Index: n_D^{25} 1.4620

Aldrich: 37764-3

Fluka: 28560

Rare Chemicals Library: S56528-8

References:

El-Abbady, A.M. *et al.*, *J.A.C.S.*, 1958, **80**, 1737, (*synth*)

Belyakova, Z.V. *et al.*, *Zh. Obshch. Khim.*, 1965, **35**, 1183, (*synth*)