



>>Entry Name: Octadecylsilane

Synonym(s): ODS

CAS Registry Number: 18623-11-5

$\text{H}_3\text{C}(\text{CH}_2)_{17}\text{SiH}_3$

Molecular Formula: $\text{C}_{18}\text{H}_{40}\text{Si}$

Molecular Weight: 284.6

Accurate Mass: 284.289927

Percentage Composition: C 75.97%; H 14.17%; Si 9.87%

Use/Importance: Many reports of use as hplc or other chromatog. support or as self-assembly monolayers as surface coating

Melting Point: Mp 29°

Boiling Point: Bp₁₅ 195°

Density: d 0.8

References:

Tsunoda, K.-I. *et al.*, *Anal. Chim. Acta*, 1993, **276**, 133-139, (*use, surface coating*)

Makuch, B. *et al.*, *Anal. Chim. Acta*, 1993, **284**, 53-58, (*use, hplc*)

Akins, D.L. *et al.*, *J. Chromatogr., A*, 1995, **689**, 269-273, (*use, chromatog*)

Fan, T.Y. *et al.*, *J. Chromatogr., A*, 1996, **740**, 289-295, (*use, hplc*)

Zhao, X. *et al.*, *J. Phys. Chem.*, 1996, **100**, 11014-11018, (*use*)