



>>Entry Name: Diacetoxydimethylsilane

Synonym(s): Dimethylsilanediol diacetate, 9CI. Dimethyldiacetoxysilane

CAS Registry Number: 2182-66-3

$\text{Me}_2\text{Si}(\text{OAc})_2$

Molecular Formula:  $\text{C}_6\text{H}_{12}\text{O}_4\text{Si}$

Molecular Weight: 176.244

Accurate Mass: 176.050487

Percentage Composition: C 40.89%; H 6.86%; O 36.31%; Si 15.94%

Source/Synthesis: Synth. from  $\text{Me}_2\text{SiCl}_2 + \text{HOAc}$

Use/Importance: Silylating agent for alcohols and *cis*-diols

Physical Description: Liq.

Boiling Point: Bp 164-166°

Aldrich: 43111-7

Fluka: 40110

#### References:

Mehrotra, R.C. *et al.*, *Tet. Lett.*, 1963, 321, (*synth*)

Kelly, R.W., *J. Chromatogr.*, 1969, **43**, 229, (*synth, use*)

*Fieser and Fieser's Reagents for Organic Synthesis*, Wiley, 1972, **3**, 113, (*synth, use*)

McFarlane, W. *et al.*, *J.C.S. Perkin 2*, 1972, 1561, (*pmr, Si-29 nmr*)

Pola, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1974, **39**, 1169, (*ir, synth*)