Triacetoxymethylsilane

Other names:	Triacetoxymethylsilane
	Silanetriol, methyl-, triacetate
	Methylsilanetriol triacetate
	Methyltrihydroxysilane triacetate
	Silane, methyltriacetoxy-
	CM8980
	methylsilanetriyl triacetate
Inchi:	InChI=1S/C7H12O6Si/c1-5(8)11-14(4,12-6(2)9)13-7(3)10/h1-4H3
InchiKey:	TVJPBVNWVPUZBM-UHFFFAOYSA-N
Formula:	C7H12O6Si
SMILES:	CC(=O)O[Si](C)(OC(C)=O)OC(C)=O
Mol. weight [g/mol]:	220.25

Physical Properties

Property code	Value	Unit	Source
af	0.5976		Cheméo Relay (1.0)
hf	-1299.81	kJ/mol	Cheméo Relay (1.0)
ie	10.25	eV	Cheméo Relay (1.0)
log10ws	-0.98		Cheméo Relay (1.0)
logp	0.244		Crippen Method
pc	2251.48	kPa	Cheméo Relay (1.0, beta)
tb	437.57	K	Cheméo Relay (1.0)
tc	636.47	K	Cheméo Relay (1.0)
tf	276.72	K	Cheméo Relay (1.0)
vc	0.615	m3/kmol	Cheméo Relay (1.0)

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	360.50 ± 0.50	K	0.40	NIST Webbook

Sources

Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4253343&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	

Legend

af:	Acentric Factor
hf:	Enthalpy of formation at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume