disilane

Inchi: InChI=1S/H6Si2/c1-2/h1-2H3
InchiKey: PZPGRFITIJYNEJ-UHFFFAOYSA-N
Formula: H6Si2
SMILES: [SiH3][SiH3]
Mol. weight [g/mol]: 62.22
CAS: 1590-87-0

Physical Properties

Property code	Value	Unit	Source
ie	9.74 ± 0.02	eV	NIST Webbook
ie	9.74 ± 0.02	eV	NIST Webbook
ie	9.90 ± 0.40	eV	NIST Webbook
ie	10.00	eV	NIST Webbook
ie	10.15 ± 0.10	eV	NIST Webbook
ie	10.60 ± 0.30	eV	NIST Webbook
ie	10.53	eV	NIST Webbook
ie	10.53	eV	NIST Webbook
log10ws	6.38		Crippen Method
logp	-2.368		Crippen Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.41248e+01
Coeff. B	-2.33806e+03
Coeff. C	-1.30600e+01
Temperature range (K), min.	143.85
Temperature range (K), max.	432.00

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1590870&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure