

# 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	$\ln(P_{vp}) = A + B/(T + C)$
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

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1590870&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1590870&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

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

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