

# Silica, vitreous

<b>Other names:</b>	Silicon dioxide
<b>Inchi:</b>	InChI=1S/O2Si/c1-3-2
<b>InchiKey:</b>	VYPSYNLAJGMNEJ-UHFFFAOYSA-N
<b>Formula:</b>	O2Si
<b>SMILES:</b>	O=[Si]=O
<b>Mol. weight [g/mol]:</b>	60.08
<b>CAS:</b>	60676-86-0

## Physical Properties

Property code	Value	Unit	Source
ea	2.10	eV	NIST Webbook
hfs	-910.70 ± 1.00	kJ/mol	NIST Webbook
log10ws	-6.31		Crippen Method
logp	-0.618		Crippen Method
ss	41.46 ± 0.20	J/mol×K	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C60676860&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C60676860&amp;Units=SI</a>

## Legend

<b>ea:</b>	Electron affinity
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>ss:</b>	Solid phase molar entropy at standard conditions

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