

germanium dioxide

Inchi:	InChI=1S/GeO2/c2-1-3
InchiKey:	YBMRDBCBDYGJE-UHFFFAOYSA-N
Formula:	GeO2
SMILES:	O=[Ge]=O
Mol. weight [g/mol]:	104.64
CAS:	1310-53-8

Physical Properties

Property code	Value	Unit	Source
ea	2.50	eV	NIST Webbook
hfs	-580.00 ± 1.00	kJ/mol	NIST Webbook
log10ws	-6.31		Crippen Method
logp	-0.618		Crippen Method
ss	39.71 ± 0.15	J/mol×K	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1310538&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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

Latest version available from:

<https://www.chemeo.com/cid/12-843-2/germanium-dioxide.pdf>

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