tetrafluorogermane

Other names: Germanium tetrafluoride
Inchi: InChI=1S/F4Ge/c1-5(2,3)4
InchiKey: PPMWWXLUCOODDK-UHFFFAOYSA-N
Formula: F4Ge
SMILES: F[Ge](F)(F)F
Mol. weight [g/mol]: 148.63
CAS: 7783-58-6

Physical Properties

Property code	Value	Unit	Source
hf	-1190.20 ± 0.50	kJ/mol	NIST Webbook
ie	15.50	eV	NIST Webbook
ie	16.10	eV	NIST Webbook
ie	16.06 ± 0.04	eV	NIST Webbook
ie	15.69 ± 0.02	eV	NIST Webbook
log10ws	0.97		Crippen Method
logp	1.300		Crippen Method
sgb	301.90 ± 1.00	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=C7783586&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf: Enthalpy of formation at standard conditions
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient

sgb: Molar entropy at standard conditions (1 bar)