

Germanium difluoride

Inchi:	InChI=1S/F2Ge/c1-3-2
InchiKey:	GGJOARIBACGTDV-UHFFFAOYSA-N
Formula:	F2Ge
SMILES:	F[Ge]F
Mol. weight [g/mol]:	110.64
CAS:	13940-63-1

Physical Properties

Property code	Value	Unit	Source
ea	1.30 ± 0.30	eV	NIST Webbook
hsub	82.80 ± 4.20	kJ/mol	NIST Webbook
hsub	93.00 ± 11.00	kJ/mol	NIST Webbook
ie	12.90 ± 0.30	eV	NIST Webbook
ie	11.80 ± 0.10	eV	NIST Webbook
ie	12.90 ± 0.30	eV	NIST Webbook
ie	11.65	eV	NIST Webbook
log10ws	1.77		Crippen Method
logp	0.460		Crippen Method
tf	385.00 ± 1.50	K	NIST Webbook
tf	385.00 ± 3.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	9.25	kJ/mol	298.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13940631&Units=SI

Legend

ea:	Electron affinity
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
tf:	Normal melting (fusion) point

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