

Selenium hexafluoride

Inchi: InChI=1S/F6Se/c1-7(2,3,4,5)6
InchiKey: LMDVZDMBPZVAIV-UHFFFAOYSA-N
Formula: F6Se
SMILES: F[Se](F)(F)(F)(F)F
Mol. weight [g/mol]: 192.95
CAS: 7783-79-1

Physical Properties

Property code	Value	Unit	Source
ea	2.90 ± 0.20	eV	NIST Webbook
log10ws	0.16		Crippen Method
logp	2.140		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	24.96 ± 0.04	kJ/mol	205.00	NIST Webbook
hsubt	23.50	kJ/mol	210.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.40806e+01
Coeff. B	-1.67477e+03
Coeff. C	-5.03600e+01
Temperature range (K), min.	120.15
Temperature range (K), max.	345.50

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7783791&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

ea:	Electron affinity
hsubt:	Enthalpy of sublimation at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure

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