1H-Indene, 1,1,2,3,4,5,6,7-octafluoro-

Inchi: InChI=1S/C9F8/c10-3-1-2(5(12)7(14)6(3)13)9(16,17)8(15)4(1)11
InchiKey: RCYYJAWAODHLBB-UHFFFAOYSA-N
Formula: C9F8
SMILES: FC1=C(F)C(F)(F)c2c(F)c(F)c(F)c(F)c21
Mol. weight [g/mol]: 260.08
CAS: 36954-58-2

Physical Properties

Property code	Value	Unit	Source
gf	-1403.36	kJ/mol	Joback Method
hf	-1495.91	kJ/mol	Joback Method
hfus	28.08	kJ/mol	Joback Method
hvap	35.06	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	3.956		Crippen Method
mcvol	112.910	ml/mol	McGowan Method
pc	2487.55	kPa	Joback Method
tb	467.16	K	Joback Method
tc	630.34	K	Joback Method
tf	352.57	K	Joback Method
vc	0.516	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.64	J/mol×K	467.16	Joback Method
cpg	262.53	J/mol×K	494.36	Joback Method
cpg	268.94	J/mol×K	521.55	Joback Method
cpg	274.94	J/mol×K	548.75	Joback Method
cpg	280.56	J/mol×K	575.95	Joback Method
cpg	285.86	J/mol×K	603.14	Joback Method
cpg	290.88	J/mol×K	630.34	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C36954582&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume