1,2-Diiodotetrafluorobenzene

Other names: 1,2,3,4-tetrafluoro-5,6-diiodobenzene
Inchi: InChI=1S/C6F4I2/c7-1-2(8)4(10)6(12)5(11)3(1)9
InchiKey: JQBYIZAYQMMVTO-UHFFFAOYSA-N
Formula: C6F4I2
SMILES: Fc1c(F)c(F)c(I)c(I)c1F
Mol. weight [g/mol]: 401.87
CAS: 2708-97-6

Physical Properties

Property code	Value	Unit	Source
gf	-599.10	kJ/mol	Joback Method
hf	-618.69	kJ/mol	Joback Method
hfus	24.52	kJ/mol	Joback Method
hvap	50.01	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	3.452		Crippen Method
mcvol	130.360	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
tb	571.62	K	Joback Method
tc	814.17	K	Joback Method
tf	364.88	K	Joback Method
vc	0.511	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.84	J/mol×K	571.62	Joback Method
cpg	209.72	J/mol×K	612.05	Joback Method
cpg	214.23	J/mol×K	652.47	Joback Method
cpg	218.41	J/mol×K	692.90	Joback Method
cpg	222.27	J/mol×K	733.32	Joback Method
cpg	225.85	J/mol×K	773.75	Joback Method
cpg	229.17	J/mol×K	814.17	Joback Method

Sources

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=C2708976&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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