Benzene, 1,2,3,5-tetrachloro-4,6-difluoro-

Other names: m-Difluorotetrachlorobenzene
Inchi: InChI=1S/C6Cl4F2/c7-1-2(8)5(11)4(10)6(12)3(1)9
InchiKey: PVGPCHMQECZTIK-UHFFFAOYSA-N
Formula: C6Cl4F2
SMILES: Fc1c(Cl)c(F)c(Cl)c(Cl)c1Cl
Mol. weight [g/mol]: 251.87
CAS: 1198-56-7

Physical Properties

Property code	Value	Unit	Source
gf	-373.44	kJ/mol	Joback Method
hf	-443.17	kJ/mol	Joback Method
hfus	26.34	kJ/mol	Joback Method
hvap	50.44	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.578		Crippen Method
mcvol	124.140	ml/mol	McGowan Method
pc	3170.40	kPa	Joback Method
tb	536.52	K	Joback Method
tc	759.67	K	Joback Method
tf	367.26	K	Joback Method
vc	0.495	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	200.70	J/mol×K	536.52	Joback Method
cpg	205.56	J/mol×K	573.71	Joback Method
cpg	210.14	J/mol×K	610.90	Joback Method
cpg	214.45	J/mol×K	648.10	Joback Method
cpg	218.49	J/mol×K	685.29	Joback Method
cpg	222.27	J/mol×K	722.48	Joback Method
cpg	225.79	J/mol×K	759.67	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=C1198567&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