Naphthalene, 1,2,3,4,5,6,8-heptachloro

Inchi: InChI=1S/C10HCl7/c11-2-1-3(12)6(13)5-4(2)7(14)9(16)10(17)8(5)15/h1H
InchiKey: QYEGXUUXWMKHHS-UHFFFAOYSA-N
Formula: C10HCl7
SMILES: Clc1cc(Cl)c2c(Cl)c(Cl)c(Cl)c(Cl)c2c1Cl
Mol. weight [g/mol]: 369.29

Physical Properties

Property code	Value	Unit	Source
gf	101.46	kJ/mol	Joback Method
hf	-12.60	kJ/mol	Joback Method
hfus	39.37	kJ/mol	Joback Method
hvap	77.10	kJ/mol	Joback Method
log10ws	-8.07		Crippen Method
logp	7.414		Crippen Method
mcvol	194.220	ml/mol	McGowan Method
pc	2587.22	kPa	Joback Method
rinpol	2694.00		NIST Webbook
rinpol	2694.00		NIST Webbook
rinpol	2668.00		NIST Webbook
tb	770.73	K	Joback Method
tc	1037.65	K	Joback Method
tf	558.66	K	Joback Method
vc	0.752	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	338.30	J/mol×K	770.73	Joback Method
cpg	361.93	J/mol×K	993.16	Joback Method
cpg	357.86	J/mol×K	948.67	Joback Method
cpg	353.51	J/mol×K	904.19	Joback Method
cpg	348.83	J/mol×K	859.70	Joback Method
cpg	343.78	J/mol×K	815.22	Joback Method
cpg	365.80	J/mol×K	1037.65	Joback Method

dvisc	0.0003005	Pa×s	770.73	Joback Method
dvisc	0.0003367	Pa×s	735.38	Joback Method
dvisc	0.0003818	Pa×s	700.04	Joback Method
dvisc	0.0004387	Pa×s	664.70	Joback Method
dvisc	0.0005119	Pa×s	629.35	Joback Method
dvisc	0.0006085	Pa×s	594.01	Joback Method
dvisc	0.0007394	Pa×s	558.66	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R128382&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume