Naphthalene, 1,2,4,5,6,8-hexachloro

Other names: 1,2,4,5,6,8-hexachloronaphthalene
naphthalene, 1,2,4,5,6,8-hexachloro-
Inchi: InChI=1S/C10H2Cl6/c11-3-1-5(13)9(15)8-4(12)2-6(14)10(16)7(3)8/h1-2H
InchiKey: JHKLUUFTHIWTKX-UHFFFAOYSA-N
Formula: C10H2Cl6
SMILES: Clc1cc(Cl)c2c(Cl)c(Cl)cc(Cl)c2c1Cl
Mol. weight [g/mol]: 334.84

Physical Properties

Property code	Value	Unit	Source
gf	123.02	kJ/mol	Joback Method
hf	14.61	kJ/mol	Joback Method
hfus	28.89	kJ/mol	Evaluation of entropies of fusion of polychlorinated naphthalenes by model congeners: A DSC study
hvap	72.05	kJ/mol	Joback Method
log10ws	-7.39		Crippen Method
logp	6.760		Crippen Method
mcvol	181.980	ml/mol	McGowan Method
pc	2729.71	kPa	Joback Method
rinpol	2425.00		NIST Webbook
rinpol	2425.00		NIST Webbook
rinpol	2425.00		NIST Webbook
tb	728.32	K	Joback Method
tc	992.99	K	Joback Method
tf	516.22	K	Joback Method
vc	0.704	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.21	J/mol×K	728.32	Joback Method
cpg	331.53	J/mol×K	772.43	Joback Method
cpg	337.34	J/mol×K	816.54	Joback Method

cpg	342.69	J/mol×K	860.66	Joback Method
cpg	347.65	J/mol×K	904.77	Joback Method
cpg	352.28	J/mol×K	948.88	Joback Method
cpg	356.64	J/mol×K	992.99	Joback Method
dvisc	0.0008492	Pa×s	516.22	Joback Method
dvisc	0.0006870	Pa×s	551.57	Joback Method
dvisc	0.0005701	Pa×s	586.92	Joback Method
dvisc	0.0004832	Pa×s	622.27	Joback Method
dvisc	0.0004169	Pa×s	657.62	Joback Method
dvisc	0.0003651	Pa×s	692.97	Joback Method
dvisc	0.0003240	Pa×s	728.32	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R128595&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Evaluation of entropies of fusion of polychlorinated naphthalenes by model congeners? A DSC study:	https://www.doi.org/10.1016/j.tca.2006.04.011
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