Naphthalene, 1,2,3,4,6-pentachloro

Inchi: InChI=1S/C10H3Cl5/c11-4-1-2-5-6(3-4)8(13)10(15)9(14)7(5)12/h1-3H
InchiKey: BAOLNVSMVTYGDA-UHFFFAOYSA-N
Formula: C10H3Cl5
SMILES: Clc1ccc2c(Cl)c(Cl)c(Cl)c(Cl)c2c1
Mol. weight [g/mol]: 300.40

Physical Properties

Property code	Value	Unit	Source
gf	144.58	kJ/mol	Joback Method
hf	41.82	kJ/mol	Joback Method
hfus	31.76	kJ/mol	Joback Method
hvap	67.00	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	6.107		Crippen Method
mcvol	169.740	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
rinpol	2186.00		NIST Webbook
rinpol	2186.00		NIST Webbook
tb	685.91	K	Joback Method
tc	947.92	K	Joback Method
tf	473.78	K	Joback Method
vc	0.654	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.73	J/mol×K	685.91	Joback Method
cpg	318.01	J/mol×K	729.58	Joback Method
cpg	324.67	J/mol×K	773.25	Joback Method
cpg	330.79	J/mol×K	816.91	Joback Method
cpg	336.44	J/mol×K	860.58	Joback Method
cpg	341.68	J/mol×K	904.25	Joback Method
cpg	346.58	J/mol×K	947.92	Joback Method
dvisc	0.0009715	Pa×s	473.78	Joback Method

dvisc	0.0007697	Pa×s	509.14	Joback Method
dvisc	0.0006286	Pa×s	544.49	Joback Method
dvisc	0.0005262	Pa×s	579.85	Joback Method
dvisc	0.0004495	Pa×s	615.20	Joback Method
dvisc	0.0003907	Pa×s	650.56	Joback Method
dvisc	0.0003445	Pa×s	685.91	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=R128446&Units=SI

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

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