Naphthalene, 1,2,3,6,7,8-hexachloro-

Inchi: InChI=1S/C10H2Cl6/c11-4-1-3-2-5(12)8(14)10(16)6(3)9(15)7(4)13/h1-2H
InchiKey: WJYZNPLWZGYFIE-UHFFFAOYSA-N
Formula: C10H2Cl6
SMILES: Clc1cc2cc(Cl)c(Cl)c(Cl)c2c(Cl)c1Cl
Mol. weight [g/mol]: 334.84
CAS: 17062-87-2

Physical Properties

Property code	Value	Unit	Source
gf	123.02	kJ/mol	Joback Method
hf	14.61	kJ/mol	Joback Method
hfus	35.56	kJ/mol	Joback Method
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	2505.00		NIST Webbook
rinpol	2505.00		NIST Webbook
rinpol	2505.00		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

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=C17062872&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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