

Naphthalene, 1,2,3,4,6,7-hexachloro

Inchi:	InChI=1S/C10H2Cl6/c11-5-1-3-4(2-6(5)12)8(14)10(16)9(15)7(3)13/h1-2H
InchiKey:	ZRNSVEOEIWKEMU-UHFFFAOYSA-N
Formula:	C10H2Cl6
SMILES:	Clc1cc2c(Cl)c(Cl)c(Cl)c(Cl)c2cc1Cl
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	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	2378.00		NIST Webbook
rinpol	2378.00		NIST Webbook
rinpol	2378.00		NIST Webbook
tb	728.32	K	Joback Method
tc	992.99	K	Joback Method
tf	516.22	K	Joback Method
vc	0.704	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.21	J/mol×K	728.32	Joback Method
cpg	352.28	J/mol×K	948.88	Joback Method
cpg	347.65	J/mol×K	904.77	Joback Method
cpg	342.69	J/mol×K	860.66	Joback Method
cpg	337.34	J/mol×K	816.54	Joback Method
cpg	331.53	J/mol×K	772.43	Joback Method
cpg	356.64	J/mol×K	992.99	Joback Method

dvisc	0.0003240	Paxs	728.32	Joback Method
dvisc	0.0003651	Paxs	692.97	Joback Method
dvisc	0.0004169	Paxs	657.62	Joback Method
dvisc	0.0004832	Paxs	622.27	Joback Method
dvisc	0.0005701	Paxs	586.92	Joback Method
dvisc	0.0006870	Paxs	551.57	Joback Method
dvisc	0.0008492	Paxs	516.22	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R128431&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
mvol:	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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