

Naphthalene, 1,2,4,5-tetrachloro

Inchi:	InChI=1S/C10H4Cl4/c11-6-3-1-2-5-9(6)7(12)4-8(13)10(5)14/h1-4H
InchiKey:	BIVDISPRSYAHQQ-UHFFFAOYSA-N
Formula:	C10H4Cl4
SMILES:	Clc1cc(Cl)c2c(Cl)cccc2c1Cl
Mol. weight [g/mol]:	265.95

Physical Properties

Property code	Value	Unit	Source
gf	166.14	kJ/mol	Joback Method
hf	69.03	kJ/mol	Joback Method
hfus	27.95	kJ/mol	Joback Method
hvap	61.96	kJ/mol	Joback Method
log10ws	-6.02		Crippen Method
logp	5.453		Crippen Method
mcvol	157.500	ml/mol	McGowan Method
pc	3052.41	kPa	Joback Method
rinpol	2029.00		NIST Webbook
rinpol	2029.00		NIST Webbook
rinpol	2029.00		NIST Webbook
tb	643.50	K	Joback Method
tc	902.29	K	Joback Method
tf	431.34	K	Joback Method
vc	0.606	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.67	J/molxK	643.50	Joback Method
cpg	303.01	J/molxK	686.63	Joback Method
cpg	310.64	J/molxK	729.76	Joback Method
cpg	317.64	J/molxK	772.89	Joback Method
cpg	324.07	J/molxK	816.03	Joback Method
cpg	330.01	J/molxK	859.16	Joback Method
cpg	335.52	J/molxK	902.29	Joback Method

dvisc	0.0011060	Paxs	431.34	Joback Method
dvisc	0.0008546	Paxs	466.70	Joback Method
dvisc	0.0006848	Paxs	502.06	Joback Method
dvisc	0.0005649	Paxs	537.42	Joback Method
dvisc	0.0004772	Paxs	572.78	Joback Method
dvisc	0.0004112	Paxs	608.14	Joback Method
dvisc	0.0003601	Paxs	643.50	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R128644&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

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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