

# Naphthalene, 1,2,4,5,7-pentachloro

<b>Inchi:</b>	InChI=1S/C10H3Cl5/c11-4-1-5-9(6(12)2-4)7(13)3-8(14)10(5)15/h1-3H
<b>InchiKey:</b>	WYLDWCYZCFVRH-UHFFFAOYSA-N
<b>Formula:</b>	C10H3Cl5
<b>SMILES:</b>	Clc1cc(Cl)c2c(Cl)cc(Cl)c(Cl)c2c1
<b>Mol. weight [g/mol]:</b>	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	2168.00		NIST Webbook
rinpol	2168.00		NIST Webbook
rinpol	2168.00		NIST Webbook
tb	685.91	K	Joback Method
tc	947.92	K	Joback Method
tf	473.78	K	Joback Method
vc	0.654	m <sup>3</sup> /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	Paxs	473.78	Joback Method
dvisc	0.0007697	Paxs	509.14	Joback Method
dvisc	0.0006286	Paxs	544.49	Joback Method
dvisc	0.0005262	Paxs	579.85	Joback Method
dvisc	0.0004495	Paxs	615.20	Joback Method
dvisc	0.0003907	Paxs	650.56	Joback Method
dvisc	0.0003445	Paxs	685.91	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R128624&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R128624&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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<https://www.chemeo.com/cid/78-814-2/Naphthalene-1-2-4-5-7-pentachloro.pdf>

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