

# Naphthalene, 1,8-dichloro-

<b>Other names:</b>	1,8-Dichloronaphthalene
<b>Inchi:</b>	InChI=1S/C10H6Cl2/c11-8-5-1-3-7-4-2-6-9(12)10(7)8/h1-6H
<b>InchiKey:</b>	ADRYPAGQXFMVFP-UHFFFAOYSA-N
<b>Formula:</b>	C10H6Cl2
<b>SMILES:</b>	Clc1cccc2cccc(Cl)c12
<b>Mol. weight [g/mol]:</b>	197.06
<b>CAS:</b>	2050-74-0

## Physical Properties

Property code	Value	Unit	Source
gf	209.26	kJ/mol	Joback Method
hf	123.45	kJ/mol	Joback Method
hfus	20.33	kJ/mol	Joback Method
hvap	51.86	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	4.147		Crippen Method
mcvol	133.020	ml/mol	McGowan Method
pc	3435.91	kPa	Joback Method
rinpol	1710.00		NIST Webbook
rinpol	1710.00		NIST Webbook
tb	558.68	K	Joback Method
tc	808.85	K	Joback Method
tf	346.46	K	Joback Method
vc	0.507	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.84	J/molxK	558.68	Joback Method
cpg	267.70	J/molxK	600.37	Joback Method
cpg	277.64	J/molxK	642.07	Joback Method
cpg	286.72	J/molxK	683.76	Joback Method
cpg	295.04	J/molxK	725.46	Joback Method
cpg	302.68	J/molxK	767.15	Joback Method

cpg	309.71	J/mol×K	808.85	Joback Method
dvisc	0.0014074	Paxs	346.46	Joback Method
dvisc	0.0010135	Paxs	381.83	Joback Method
dvisc	0.0007716	Paxs	417.20	Joback Method
dvisc	0.0006131	Paxs	452.57	Joback Method
dvisc	0.0005036	Paxs	487.94	Joback Method
dvisc	0.0004248	Paxs	523.31	Joback Method
dvisc	0.0003662	Paxs	558.68	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2050740&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2050740&amp;Units=SI</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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