

# 1-Chloromethyl-4-methylnaphthalene

<b>Inchi:</b>	InChI=1S/C12H11Cl/c1-9-6-7-10(8-13)12-5-3-2-4-11(9)12/h2-7H,8H2,1H3
<b>InchiKey:</b>	QHXS BKTZBDH BKF-UHFFFAOYSA-N
<b>Formula:</b>	C12H11Cl
<b>SMILES:</b>	Cc1ccc(CCl)c2ccccc12
<b>Mol. weight [g/mol]:</b>	190.67
<b>CAS:</b>	5261-50-7

## Physical Properties

Property code	Value	Unit	Source
gf	238.03	kJ/mol	Joback Method
hf	97.91	kJ/mol	Joback Method
hfus	21.32	kJ/mol	Joback Method
hvap	51.93	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	3.887		Crippen Method
mcvol	148.960	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
rinpol	1678.00		NIST Webbook
rinpol	1678.00		NIST Webbook
tb	567.01	K	Joback Method
tc	802.92	K	Joback Method
tf	339.08	K	Joback Method
vc	0.571	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.55	J/mol×K	567.01	Joback Method
cpg	382.30	J/mol×K	763.60	Joback Method
cpg	372.06	J/mol×K	724.28	Joback Method
cpg	361.04	J/mol×K	684.97	Joback Method
cpg	349.17	J/mol×K	645.65	Joback Method
cpg	336.36	J/mol×K	606.33	Joback Method
cpg	391.82	J/mol×K	802.92	Joback Method

dvisc	0.0003186	Paxs	567.01	Joback Method
dvisc	0.0003730	Paxs	529.02	Joback Method
dvisc	0.0004475	Paxs	491.03	Joback Method
dvisc	0.0005535	Paxs	453.05	Joback Method
dvisc	0.0007117	Paxs	415.06	Joback Method
dvisc	0.0009629	Paxs	377.07	Joback Method
dvisc	0.0013939	Paxs	339.08	Joback Method

## Sources

<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=C5261507&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5261507&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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