

# 2-(chloromethyl)naphthalene

<b>Inchi:</b>	InChI=1S/C11H9Cl/c12-8-9-5-6-10-3-1-2-4-11(10)7-9/h1-7H,8H2
<b>InchiKey:</b>	MPCHQYWZAVTABQ-UHFFFAOYSA-N
<b>Formula:</b>	C11H9Cl
<b>SMILES:</b>	ClCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	176.64
<b>CAS:</b>	2506-41-4

## Physical Properties

Property code	Value	Unit	Source
gf	239.24	kJ/mol	Joback Method
hf	130.02	kJ/mol	Joback Method
hfus	19.11	kJ/mol	Joback Method
hvap	49.04	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.579		Crippen Method
mcvol	134.870	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
tb	539.15	K	Joback Method
tc	778.74	K	Joback Method
tf	315.29	K	Joback Method
vc	0.514	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	277.94	J/molxK	539.15	Joback Method
cpg	291.23	J/molxK	579.08	Joback Method
cpg	303.46	J/molxK	619.01	Joback Method
cpg	314.72	J/molxK	658.94	Joback Method
cpg	325.09	J/molxK	698.88	Joback Method
cpg	334.64	J/molxK	738.81	Joback Method
cpg	343.47	J/molxK	778.74	Joback Method
dvisc	0.0016514	Paxs	315.29	Joback Method
dvisc	0.0011032	Paxs	352.60	Joback Method

dvisc	0.0007961	Paxs	389.91	Joback Method
dvisc	0.0006082	Paxs	427.22	Joback Method
dvisc	0.0004852	Paxs	464.53	Joback Method
dvisc	0.0004002	Paxs	501.84	Joback Method
dvisc	0.0003391	Paxs	539.15	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	443.20	K	2.70	NIST Webbook

## Sources

<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=C2506414&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2506414&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>

## 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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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