

# Acenaphthene, 3-chloro

<b>Inchi:</b>	InChI=1S/C12H9Cl/c13-11-7-5-9-3-1-2-8-4-6-10(11)12(8)9/h1-3,5,7H,4,6H2
<b>InchiKey:</b>	ACBQLXLMWUXKHR-UHFFFAOYSA-N
<b>Formula:</b>	C12H9Cl
<b>SMILES:</b>	Clc1ccc2ccccc3c2c1CC3
<b>Mol. weight [g/mol]:</b>	188.65

## Physical Properties

Property code	Value	Unit	Source
gf	308.96	kJ/mol	Joback Method
hf	185.74	kJ/mol	Joback Method
hfus	20.09	kJ/mol	Joback Method
hvap	52.64	kJ/mol	Joback Method
log10ws	-4.62		Crippen Method
logp	3.592		Crippen Method
mcvol	138.100	ml/mol	McGowan Method
pc	3310.55	kPa	Joback Method
rinsol	1668.00		NIST Webbook
tb	579.13	K	Joback Method
tc	825.51	K	Joback Method
tf	377.30	K	Joback Method
vc	0.536	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.21	J/molxK	579.13	Joback Method
cpg	316.83	J/molxK	620.19	Joback Method
cpg	328.35	J/molxK	661.26	Joback Method
cpg	338.92	J/molxK	702.32	Joback Method
cpg	348.67	J/molxK	743.38	Joback Method
cpg	357.74	J/molxK	784.44	Joback Method
cpg	366.26	J/molxK	825.51	Joback Method
dvisc	0.0016055	Paxs	377.30	Joback Method
dvisc	0.0013756	Paxs	410.94	Joback Method

dvisc	0.0012065	Paxs	444.58	Joback Method
dvisc	0.0010779	Paxs	478.22	Joback Method
dvisc	0.0009774	Paxs	511.85	Joback Method
dvisc	0.0008971	Paxs	545.49	Joback Method
dvisc	0.0008315	Paxs	579.13	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R131596&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R131596&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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