

# 1-Naphthaleneacetic acid, 3-chlorophenyl ester

Inchi:	InChI=1S/C18H13ClO2/c19-15-8-4-9-16(12-15)21-18(20)11-14-7-3-6-13-5-1-2-10-17(13)
InchiKey:	XNTAOMRNPHSFMO-UHFFFAOYSA-N
Formula:	C18H13ClO2
SMILES:	O=C(Cc1cccc2ccccc12)Oc1cccc(Cl)c1
Mol. weight [g/mol]:	296.75

## Physical Properties

Property code	Value	Unit	Source
gf	167.04	kJ/mol	Joback Method
hf	-34.20	kJ/mol	Joback Method
hfus	33.68	kJ/mol	Joback Method
hvap	76.72	kJ/mol	Joback Method
log10ws	-5.89		Crippen Method
logp	4.641		Crippen Method
mvol	217.180	ml/mol	McGowan Method
pc	2356.49	kPa	Joback Method
rinpol	3065.00		NIST Webbook
rinpol	3065.00		NIST Webbook
tb	807.26	K	Joback Method
tc	1061.03	K	Joback Method
tf	505.28	K	Joback Method
vc	0.823	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	578.01	J/molxK	807.26	Joback Method
cpg	633.85	J/molxK	1018.74	Joback Method
cpg	624.58	J/molxK	976.44	Joback Method
cpg	614.47	J/molxK	934.15	Joback Method
cpg	603.40	J/molxK	891.85	Joback Method
cpg	591.29	J/molxK	849.56	Joback Method
cpg	642.38	J/molxK	1061.03	Joback Method
dvisc	0.0001699	Paxs	807.26	Joback Method

dvisc	0.0002038	Paxs	756.93	Joback Method
dvisc	0.0002510	Paxs	706.60	Joback Method
dvisc	0.0003191	Paxs	656.27	Joback Method
dvisc	0.0004222	Paxs	605.94	Joback Method
dvisc	0.0005876	Paxs	555.61	Joback Method
dvisc	0.0008735	Paxs	505.28	Joback Method

## 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=U415051&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415051&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>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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