

# 6-Chlorohexanoic acid, 2-naphthyl ester

<b>Inchi:</b>	InChI=1S/C16H17ClO2/c17-11-5-1-2-8-16(18)19-15-10-9-13-6-3-4-7-14(13)12-15/h3-4,6
<b>InchiKey:</b>	BPYZYGDDNGIIMV-UHFFFAOYSA-N
<b>Formula:</b>	C16H17ClO2
<b>SMILES:</b>	O=C(CCCCCCl)Oc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	276.76

## Physical Properties

Property code	Value	Unit	Source
gf	47.42	kJ/mol	Joback Method
hf	-217.98	kJ/mol	Joback Method
hfus	34.85	kJ/mol	Joback Method
hvap	69.33	kJ/mol	Joback Method
log10ws	-5.42		Crippen Method
logp	4.544		Crippen Method
mcvol	212.760	ml/mol	McGowan Method
pc	2096.50	kPa	Joback Method
rinqol	2302.00		NIST Webbook
tb	729.84	K	Joback Method
tc	951.12	K	Joback Method
tf	443.80	K	Joback Method
vc	0.819	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	563.50	J/molxK	729.84	Joback Method
cpg	577.86	J/molxK	766.72	Joback Method
cpg	591.22	J/molxK	803.60	Joback Method
cpg	603.65	J/molxK	840.48	Joback Method
cpg	615.21	J/molxK	877.36	Joback Method
cpg	625.97	J/molxK	914.24	Joback Method
cpg	635.99	J/molxK	951.12	Joback Method
dvisc	0.0012279	Paxs	443.80	Joback Method
dvisc	0.0007860	Paxs	491.47	Joback Method

dvisc	0.0005444	Paxs	539.15	Joback Method
dvisc	0.0004002	Paxs	586.82	Joback Method
dvisc	0.0003082	Paxs	634.49	Joback Method
dvisc	0.0002461	Paxs	682.17	Joback Method
dvisc	0.0002024	Paxs	729.84	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=U307626&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307626&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

Latest version available from:

<https://www.chemeo.com/cid/54-725-7/6-Chlorohexanoic-acid-2-naphthyl-ester.pdf>

Generated by Cheméo on 2024-04-26 14:50:40.213025902 +0000 UTC m=+16432289.133603212.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.