

# Cyclohexanecarboxylic acid, 2-naphthyl ester

<b>Inchi:</b>	InChI=1S/C17H18O2/c18-17(14-7-2-1-3-8-14)19-16-11-10-13-6-4-5-9-15(13)12-16/h4-6,
<b>InchiKey:</b>	DTJCAZMLSDVXEI-UHFFFAOYSA-N
<b>Formula:</b>	C17H18O2
<b>SMILES:</b>	O=C(Oc1ccc2ccccc2c1)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	254.32

## Physical Properties

Property code	Value	Unit	Source
gf	92.22	kJ/mol	Joback Method
hf	-168.56	kJ/mol	Joback Method
hfus	25.08	kJ/mol	Joback Method
hvap	67.60	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.325		Crippen Method
mcvol	203.750	ml/mol	McGowan Method
pc	2407.64	kPa	Joback Method
rinpol	2187.00		NIST Webbook
rinpol	2187.00		NIST Webbook
tb	734.84	K	Joback Method
tc	984.41	K	Joback Method
tf	432.53	K	Joback Method
vc	0.758	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	583.50	J/molxK	734.84	Joback Method
cpg	601.87	J/molxK	776.44	Joback Method
cpg	618.70	J/molxK	818.03	Joback Method
cpg	634.09	J/molxK	859.63	Joback Method
cpg	648.13	J/molxK	901.22	Joback Method
cpg	660.92	J/molxK	942.82	Joback Method
cpg	672.54	J/molxK	984.41	Joback Method
dvisc	0.0015212	Paxs	432.53	Joback Method

dvisc	0.0009192	Paxs	482.91	Joback Method
dvisc	0.0006109	Paxs	533.30	Joback Method
dvisc	0.0004357	Paxs	583.68	Joback Method
dvisc	0.0003279	Paxs	634.07	Joback Method
dvisc	0.0002573	Paxs	684.46	Joback Method
dvisc	0.0002087	Paxs	734.84	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307709&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307709&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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