

# 1,2-Cyclohexanedicarboxylic acid, heptadecyl 2-methylcyclohexyl ester

Inchi:	InChI=1S/C32H58O4/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-21-26-35-31(33)28-23-18-
InchiKey:	IGDXQEFYAZCORF-UHFFFAOYSA-N
Formula:	C32H58O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C1CCCCC1C(=O)OC1CCCCC1C
Mol. weight [g/mol]:	506.80

## Physical Properties

Property code	Value	Unit	Source
gf	-215.80	kJ/mol	Joback Method
hf	-1125.45	kJ/mol	Joback Method
hfus	70.02	kJ/mol	Joback Method
hvap	105.38	kJ/mol	Joback Method
log10ws	-10.12		Crippen Method
logp	9.329		Crippen Method
mvol	454.900	ml/mol	McGowan Method
pc	673.25	kPa	Joback Method
rinpol	3597.00		NIST Webbook
rinpol	3597.00		NIST Webbook
tb	1113.90	K	Joback Method
tc	1376.33	K	Joback Method
tf	601.00	K	Joback Method
vc	1.740	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1731.39	J/molxK	1113.90	Joback Method
cpg	1793.23	J/molxK	1332.59	Joback Method
cpg	1786.56	J/molxK	1288.86	Joback Method
cpg	1777.14	J/molxK	1245.12	Joback Method
cpg	1764.87	J/molxK	1201.38	Joback Method
cpg	1749.66	J/molxK	1157.64	Joback Method
cpg	1797.27	J/molxK	1376.33	Joback Method
dvisc	0.0000163	Paxs	1113.90	Joback Method

dvisc	0.0000217	Paxs	1028.42	Joback Method
dvisc	0.0000303	Paxs	942.93	Joback Method
dvisc	0.0000454	Paxs	857.45	Joback Method
dvisc	0.0000742	Paxs	771.97	Joback Method
dvisc	0.0001373	Paxs	686.48	Joback Method
dvisc	0.0003026	Paxs	601.00	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=U339885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339885&amp;Units=SI</a>

## Legend

<b>cp<sub>g</sub>:</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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