

# cis-Cyclohex-4-en-1,2-dicarboxylic acid, 3-methylbutyl pentadecyl ester

Inchi:	InChI=1S/C28H50O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-18-22-31-27(29)25-19-16-17-20
InchiKey:	GUHJPLDKGYGRGZ-UHFFFAOYSA-N
Formula:	C28H50O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C1CC=CCC1C(=O)OCCC(C)C
Mol. weight [g/mol]:	450.69

## Physical Properties

Property code	Value	Unit	Source
gf	-238.70	kJ/mol	Joback Method
hf	-1024.37	kJ/mol	Joback Method
hfus	64.45	kJ/mol	Joback Method
hvap	96.26	kJ/mol	Joback Method
log10ws	-8.29		Crippen Method
logp	7.792		Crippen Method
mcvol	405.100	ml/mol	McGowan Method
pc	772.46	kPa	Joback Method
rinpol	3053.00		NIST Webbook
rinpol	3053.00		NIST Webbook
tb	1006.22	K	Joback Method
tc	1235.53	K	Joback Method
tf	538.54	K	Joback Method
vc	1.563	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1443.30	J/molxK	1006.22	Joback Method
cpg	1463.06	J/molxK	1044.44	Joback Method
cpg	1480.80	J/molxK	1082.66	Joback Method
cpg	1496.57	J/molxK	1120.87	Joback Method
cpg	1510.43	J/molxK	1159.09	Joback Method
cpg	1522.44	J/molxK	1197.31	Joback Method
cpg	1532.67	J/molxK	1235.53	Joback Method
dvisc	0.0004473	Paxs	538.54	Joback Method

dvisc	0.0001966	Paxs	616.49	Joback Method
dvisc	0.0001039	Paxs	694.43	Joback Method
dvisc	0.0000625	Paxs	772.38	Joback Method
dvisc	0.0000412	Paxs	850.33	Joback Method
dvisc	0.0000292	Paxs	928.27	Joback Method
dvisc	0.0000218	Paxs	1006.22	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=U382832&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382832&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

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