

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

Inchi:	InChI=1S/C29H52O4/c1-5-7-8-9-10-11-12-13-14-15-16-17-20-23-32-28(30)25-21-18-19-
InchiKey:	HYHXGSKODIMAPX-UHFFFAOYSA-N
Formula:	C29H52O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C1CC=CCC1C(=O)OC(CC)C(C)C
Mol. weight [g/mol]:	464.72

## Physical Properties

Property code	Value	Unit	Source
gf	-232.72	kJ/mol	Joback Method
hf	-1050.29	kJ/mol	Joback Method
hfus	63.52	kJ/mol	Joback Method
hvap	98.10	kJ/mol	Joback Method
log10ws	-8.82		Crippen Method
logp	8.181		Crippen Method
mvol	419.190	ml/mol	McGowan Method
pc	736.02	kPa	Joback Method
rinpol	3142.00		NIST Webbook
rinpol	3142.00		NIST Webbook
tb	1028.66	K	Joback Method
tc	1265.06	K	Joback Method
tf	534.81	K	Joback Method
vc	1.613	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1507.83	J/molxK	1028.66	Joback Method
cpg	1585.76	J/molxK	1225.66	Joback Method
cpg	1574.26	J/molxK	1186.26	Joback Method
cpg	1560.78	J/molxK	1146.86	Joback Method
cpg	1545.26	J/molxK	1107.46	Joback Method
cpg	1527.64	J/molxK	1068.06	Joback Method
cpg	1595.37	J/molxK	1265.06	Joback Method
dvisc	0.0000170	Paxs	1028.66	Joback Method

dvisc	0.0000231	Paxs	946.35	Joback Method
dvisc	0.0000332	Paxs	864.04	Joback Method
dvisc	0.0000518	Paxs	781.74	Joback Method
dvisc	0.0000895	Paxs	699.43	Joback Method
dvisc	0.0001789	Paxs	617.12	Joback Method
dvisc	0.0004428	Paxs	534.81	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=U382769&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382769&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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