

# 1,2-Cyclohexanedicarboxylic acid, 3-methylbut-2-yl pentadecyl ester

Inchi:	InChI=1S/C28H52O4/c1-5-6-7-8-9-10-11-12-13-14-15-16-19-22-31-27(29)25-20-17-18-2
InchiKey:	GODPKWBFJFURBF-UHFFFAOYSA-N
Formula:	C28H52O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C1CCCCC1C(=O)OC(C)C(C)C
Mol. weight [g/mol]:	452.71

## Physical Properties

Property code	Value	Unit	Source
gf	-271.10	kJ/mol	Joback Method
hf	-1087.43	kJ/mol	Joback Method
hfus	59.71	kJ/mol	Joback Method
hvap	95.58	kJ/mol	Joback Method
log10ws	-8.55		Crippen Method
logp	8.015		Crippen Method
mcvol	409.400	ml/mol	McGowan Method
pc	760.58	kPa	Joback Method
rinpol	3067.00		NIST Webbook
rinpol	3067.00		NIST Webbook
tb	1006.62	K	Joback Method
tc	1235.49	K	Joback Method
tf	522.78	K	Joback Method
vc	1.571	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1475.46	J/molxK	1006.62	Joback Method
cpg	1495.71	J/molxK	1044.76	Joback Method
cpg	1513.86	J/molxK	1082.91	Joback Method
cpg	1529.96	J/molxK	1121.05	Joback Method
cpg	1544.07	J/molxK	1159.20	Joback Method
cpg	1556.24	J/molxK	1197.34	Joback Method
cpg	1566.54	J/molxK	1235.49	Joback Method
dvisc	0.0005095	Paxs	522.78	Joback Method

dvisc	0.0002011	Paxs	603.42	Joback Method
dvisc	0.0000989	Paxs	684.06	Joback Method
dvisc	0.0000564	Paxs	764.70	Joback Method
dvisc	0.0000359	Paxs	845.34	Joback Method
dvisc	0.0000247	Paxs	925.98	Joback Method
dvisc	0.0000180	Paxs	1006.62	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339567&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339567&amp;Units=SI</a>
<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>

## 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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