

# cis-Cyclohex-4-en-1,2-dicarboxylic acid, phenethyl undecyl ester

<b>Inchi:</b>	InChI=1S/C27H40O4/c1-2-3-4-5-6-7-8-9-15-21-30-26(28)24-18-13-14-19-25(24)27(29)3
<b>InchiKey:</b>	DFTHPDUCEITGAZ-UHFFFAOYSA-N
<b>Formula:</b>	C27H40O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)C1CC=CCC1C(=O)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	428.60

## Physical Properties

Property code	Value	Unit	Source
gf	-132.27	kJ/mol	Joback Method
hf	-761.92	kJ/mol	Joback Method
hfus	59.43	kJ/mol	Joback Method
hvap	96.70	kJ/mol	Joback Method
log10ws	-7.22		Crippen Method
logp	6.429		Crippen Method
mvol	367.250	ml/mol	McGowan Method
pc	989.51	kPa	Joback Method
rinpol	3128.00		NIST Webbook
rinpol	3128.00		NIST Webbook
tb	1010.46	K	Joback Method
tc	1237.47	K	Joback Method
tf	568.69	K	Joback Method
vc	1.405	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1274.06	J/molxK	1010.46	Joback Method
cpg	1290.36	J/molxK	1048.29	Joback Method
cpg	1304.88	J/molxK	1086.13	Joback Method
cpg	1317.68	J/molxK	1123.96	Joback Method
cpg	1328.83	J/molxK	1161.80	Joback Method
cpg	1338.39	J/molxK	1199.63	Joback Method
cpg	1346.43	J/molxK	1237.47	Joback Method
dvisc	0.0003970	Paxs	568.69	Joback Method

dvisc	0.0001999	Paxs	642.32	Joback Method
dvisc	0.0001159	Paxs	715.95	Joback Method
dvisc	0.0000744	Paxs	789.58	Joback Method
dvisc	0.0000515	Paxs	863.20	Joback Method
dvisc	0.0000378	Paxs	936.83	Joback Method
dvisc	0.0000290	Paxs	1010.46	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=U382798&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382798&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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