

# 1,2-Cyclohexanedicarboxylic acid, furfuryl tetradecyl ester

Inchi:	InChI=1S/C27H48O5/c1-2-3-4-5-6-7-8-9-10-11-12-15-20-31-26(28)24-18-13-14-19-25(2
InchiKey:	JGQRHRPBYPAEOA-UHFFFAOYSA-N
Formula:	C27H48O5
SMILES:	CCCCCCCCCCCCCOC(=O)C1CCCCC1C(=O)OCC1CCCO1
Mol. weight [g/mol]:	452.67

## Physical Properties

Property code	Value	Unit	Source
gf	-324.21	kJ/mol	Joback Method
hf	-1127.75	kJ/mol	Joback Method
hfus	66.08	kJ/mol	Joback Method
hvap	98.89	kJ/mol	Joback Method
log10ws	-7.35		Crippen Method
logp	6.759		Crippen Method
mvol	390.320	ml/mol	McGowan Method
pc	877.91	kPa	Joback Method
rinpol	3256.00		NIST Webbook
rinpol	3256.00		NIST Webbook
tb	1026.85	K	Joback Method
tc	1257.91	K	Joback Method
tf	578.98	K	Joback Method
vc	1.490	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1435.98	J/molxK	1026.85	Joback Method
cpg	1507.88	J/molxK	1219.40	Joback Method
cpg	1497.40	J/molxK	1180.89	Joback Method
cpg	1485.04	J/molxK	1142.38	Joback Method
cpg	1470.73	J/molxK	1103.87	Joback Method
cpg	1454.40	J/molxK	1065.36	Joback Method
cpg	1516.54	J/molxK	1257.91	Joback Method
dvisc	0.0000323	Paxs	1026.85	Joback Method

dvisc	0.0000425	Paxs	952.20	Joback Method
dvisc	0.0000587	Paxs	877.56	Joback Method
dvisc	0.0000860	Paxs	802.91	Joback Method
dvisc	0.0001362	Paxs	728.27	Joback Method
dvisc	0.0002396	Paxs	653.62	Joback Method
dvisc	0.0004878	Paxs	578.98	Joback Method

## Sources

<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=U339904&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339904&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</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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