

# 1,2-Cyclohexanedicarboxylic acid, furfuryl undecyl ester

Inchi:	InChI=1S/C24H42O5/c1-2-3-4-5-6-7-8-9-12-17-28-23(25)21-15-10-11-16-22(21)24(26)29
InchiKey:	YWPVXYHPGPCJLJ-UHFFFAOYSA-N
Formula:	C24H42O5
SMILES:	CCCCCCCCCOC(=O)C1CCCCC1C(=O)OCC1CCCO1
Mol. weight [g/mol]:	410.59

## Physical Properties

Property code	Value	Unit	Source
gf	-349.47	kJ/mol	Joback Method
hf	-1065.83	kJ/mol	Joback Method
hfus	58.31	kJ/mol	Joback Method
hvap	92.22	kJ/mol	Joback Method
log10ws	-6.10		Crippen Method
logp	5.589		Crippen Method
mvol	348.050	ml/mol	McGowan Method
pc	1049.37	kPa	Joback Method
rinpol	2946.00		NIST Webbook
rinpol	2946.00		NIST Webbook
tb	958.21	K	Joback Method
tc	1174.83	K	Joback Method
tf	545.17	K	Joback Method
vc	1.321	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1245.86	J/molxK	958.21	Joback Method
cpg	1320.86	J/molxK	1138.73	Joback Method
cpg	1309.27	J/molxK	1102.62	Joback Method
cpg	1296.01	J/molxK	1066.52	Joback Method
cpg	1281.06	J/molxK	1030.42	Joback Method
cpg	1264.35	J/molxK	994.31	Joback Method
cpg	1330.85	J/molxK	1174.83	Joback Method
dvisc	0.0000510	Paxs	958.21	Joback Method

dvisc	0.0000666	Paxs	889.37	Joback Method
dvisc	0.0000912	Paxs	820.53	Joback Method
dvisc	0.0001321	Paxs	751.69	Joback Method
dvisc	0.0002062	Paxs	682.85	Joback Method
dvisc	0.0003557	Paxs	614.01	Joback Method
dvisc	0.0007043	Paxs	545.17	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=U339902&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339902&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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