

# 1,2-Cyclohexanedicarboxylic acid, difurfuryl ester

Inchi:	InChI=1S/C18H28O6/c19-17(23-11-13-5-3-9-21-13)15-7-1-2-8-16(15)18(20)24-12-14-6-4
InchiKey:	YKLOZNR RBGPWAL-UHFFFAOYSA-N
Formula:	C18H28O6
SMILES:	O=C(OCC1CCCO1)C1CCCCC1C(=O)OCC1CCCO1
Mol. weight [g/mol]:	340.41

## Physical Properties

Property code	Value	Unit	Source
gf	-449.56	kJ/mol	Joback Method
hf	-1013.51	kJ/mol	Joback Method
hfus	44.68	kJ/mol	Joback Method
hvap	83.63	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.237		Crippen Method
mcvol	258.520	ml/mol	McGowan Method
pc	1826.28	kPa	Joback Method
rinpol	2576.00		NIST Webbook
rinpol	2576.00		NIST Webbook
tb	863.16	K	Joback Method
tc	1093.97	K	Joback Method
tf	515.02	K	Joback Method
vc	0.948	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	902.13	J/molxK	863.16	Joback Method
cpg	920.86	J/molxK	901.63	Joback Method
cpg	937.72	J/molxK	940.10	Joback Method
cpg	952.76	J/molxK	978.56	Joback Method
cpg	966.03	J/molxK	1017.03	Joback Method
cpg	977.55	J/molxK	1055.50	Joback Method
cpg	987.38	J/molxK	1093.97	Joback Method
dvisc	0.0014965	Paxs	515.02	Joback Method

dvisc	0.0008472	Paxs	573.04	Joback Method
dvisc	0.0005325	Paxs	631.07	Joback Method
dvisc	0.0003619	Paxs	689.09	Joback Method
dvisc	0.0002612	Paxs	747.11	Joback Method
dvisc	0.0001976	Paxs	805.14	Joback Method
dvisc	0.0001552	Paxs	863.16	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=U339906&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339906&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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