

# 1,2-Cyclohexanedicarboxylic acid, 2-adamantyl nonyl ester

Inchi:	InChI=1S/C27H44O4/c1-2-3-4-5-6-7-10-13-30-26(28)23-11-8-9-12-24(23)27(29)31-25-2
InchiKey:	JRLKAAGIKJJHFX-UHFFFAOYSA-N
Formula:	C27H44O4
SMILES:	CCCCCCCCCOC(=O)C1CCCCC1C(=O)OC1C2CC3CC(C2)CC1C3
Mol. weight [g/mol]:	432.64

## Physical Properties

Property code	Value	Unit	Source
gf	-119.91	kJ/mol	Joback Method
hf	-884.67	kJ/mol	Joback Method
hfus	58.61	kJ/mol	Joback Method
hvap	93.42	kJ/mol	Joback Method
log10ws	-7.09		Crippen Method
logp	6.454		Crippen Method
mcvol	362.730	ml/mol	McGowan Method
pc	978.40	kPa	Joback Method
rinpol	3189.00		NIST Webbook
rinpol	3189.00		NIST Webbook
tb	999.77	K	Joback Method
tc	1225.55	K	Joback Method
tf	583.33	K	Joback Method
vc	1.389	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1373.24	J/mol×K	999.77	Joback Method
cpg	1393.85	J/mol×K	1037.40	Joback Method
cpg	1412.92	J/mol×K	1075.03	Joback Method
cpg	1430.56	J/mol×K	1112.66	Joback Method
cpg	1446.90	J/mol×K	1150.29	Joback Method
cpg	1462.04	J/mol×K	1187.92	Joback Method
cpg	1476.13	J/mol×K	1225.55	Joback Method
dvisc	0.0039468	Paxs	583.33	Joback Method

dvisc	0.0029289	Paxs	652.74	Joback Method
dvisc	0.0023017	Paxs	722.14	Joback Method
dvisc	0.0018870	Paxs	791.55	Joback Method
dvisc	0.0015973	Paxs	860.96	Joback Method
dvisc	0.0013861	Paxs	930.36	Joback Method
dvisc	0.0012268	Paxs	999.77	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=U339774&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339774&amp;Units=SI</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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