

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

Inchi:	InChI=1S/C28H46O4/c1-2-3-4-5-6-7-8-11-14-31-27(29)24-12-9-10-13-25(24)28(30)32-26
InchiKey:	KPFYZJMRRSAZQH-UHFFFAOYSA-N
Formula:	C28H46O4
SMILES:	CCCCCCCCCOC(=O)C1CCCCC1C(=O)OC1C2CC3CC(C2)CC1C3
Mol. weight [g/mol]:	446.66

## Physical Properties

Property code	Value	Unit	Source
gf	-111.49	kJ/mol	Joback Method
hf	-905.31	kJ/mol	Joback Method
hfus	61.20	kJ/mol	Joback Method
hvap	95.65	kJ/mol	Joback Method
log10ws	-7.51		Crippen Method
logp	6.845		Crippen Method
mvol	376.820	ml/mol	McGowan Method
pc	922.18	kPa	Joback Method
rinpol	3294.00		NIST Webbook
rinpol	3294.00		NIST Webbook
tb	1022.65	K	Joback Method
tc	1252.28	K	Joback Method
tf	594.60	K	Joback Method
vc	1.444	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1438.04	J/mol×K	1022.65	Joback Method
cpg	1458.80	J/mol×K	1060.92	Joback Method
cpg	1478.00	J/mol×K	1099.19	Joback Method
cpg	1495.75	J/mol×K	1137.47	Joback Method
cpg	1512.19	J/mol×K	1175.74	Joback Method
cpg	1527.45	J/mol×K	1214.01	Joback Method
cpg	1541.66	J/mol×K	1252.28	Joback Method
dvisc	0.0037098	Paxs	594.60	Joback Method

dvisc	0.0027161	Paxs	665.94	Joback Method
dvisc	0.0021122	Paxs	737.28	Joback Method
dvisc	0.0017172	Paxs	808.62	Joback Method
dvisc	0.0014436	Paxs	879.97	Joback Method
dvisc	0.0012457	Paxs	951.31	Joback Method
dvisc	0.0010972	Paxs	1022.65	Joback Method

## Sources

<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=U339775&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339775&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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