

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

<b>Inchi:</b>	InChI=1S/C26H42O4/c1-2-3-4-5-6-9-12-29-25(27)22-10-7-8-11-23(22)26(28)30-24-20-14
<b>InchiKey:</b>	SQJXYLNCTLYURH-UHFFFAOYSA-N
<b>Formula:</b>	C26H42O4
<b>SMILES:</b>	CCCCCCCCOC(=O)C1CCCCC1C(=O)OC1C2CC3CC(C2)CC1C3
<b>Mol. weight [g/mol]:</b>	418.61

## Physical Properties

Property code	Value	Unit	Source
gf	-128.33	kJ/mol	Joback Method
hf	-864.03	kJ/mol	Joback Method
hfus	56.02	kJ/mol	Joback Method
hvap	91.20	kJ/mol	Joback Method
log10ws	-6.67		Crippen Method
logp	6.064		Crippen Method
mvol	348.640	ml/mol	McGowan Method
pc	1039.91	kPa	Joback Method
rinpol	3085.00		NIST Webbook
rinpol	3085.00		NIST Webbook
tb	976.89	K	Joback Method
tc	1199.82	K	Joback Method
tf	572.06	K	Joback Method
vc	1.333	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1308.82	J/molxK	976.89	Joback Method
cpg	1397.29	J/molxK	1162.67	Joback Method
cpg	1382.21	J/molxK	1125.51	Joback Method
cpg	1365.94	J/molxK	1088.36	Joback Method
cpg	1348.35	J/molxK	1051.20	Joback Method
cpg	1329.35	J/molxK	1014.05	Joback Method
cpg	1411.29	J/molxK	1199.82	Joback Method
dvisc	0.0013667	Paxs	976.89	Joback Method

dvisc	0.0015365	Paxs	909.42	Joback Method
dvisc	0.0017602	Paxs	841.95	Joback Method
dvisc	0.0020648	Paxs	774.47	Joback Method
dvisc	0.0024969	Paxs	707.00	Joback Method
dvisc	0.0031430	Paxs	639.53	Joback Method
dvisc	0.0041770	Paxs	572.06	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339773&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339773&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.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>

## 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>c</sub>vol:</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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