

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

**Inchi:** InChI=1S/C22H34O4/c1-2-3-8-25-21(23)18-6-4-5-7-19(18)22(24)26-20-16-10-14-9-15(12)  
**InchiKey:** RBQIYDCEYQKHFC-UHFFFAOYSA-N  
**Formula:** C22H34O4  
**SMILES:** CCCCOC(=O)C1CCCCC1C(=O)OC1C2CC3CC(C2)CC1C3  
**Mol. weight [g/mol]:** 362.50

## Physical Properties

Property code	Value	Unit	Source
gf	-162.01	kJ/mol	Joback Method
hf	-781.47	kJ/mol	Joback Method
hfus	45.66	kJ/mol	Joback Method
hvap	82.29	kJ/mol	Joback Method
log10ws	-5.00		Crippen Method
logp	4.504		Crippen Method
mvol	292.280	ml/mol	McGowan Method
pc	1354.63	kPa	Joback Method
rinpol	2682.00		NIST Webbook
rinpol	2682.00		NIST Webbook
tb	885.37	K	Joback Method
tc	1105.67	K	Joback Method
tf	526.98	K	Joback Method
vc	1.109	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1055.74	J/molxK	885.37	Joback Method
cpg	1144.86	J/molxK	1068.95	Joback Method
cpg	1129.73	J/molxK	1032.24	Joback Method
cpg	1113.34	J/molxK	995.52	Joback Method
cpg	1095.61	J/molxK	958.80	Joback Method
cpg	1076.44	J/molxK	922.09	Joback Method
cpg	1158.84	J/molxK	1105.67	Joback Method
dvisc	0.0020184	Paxs	885.37	Joback Method

dvisc	0.0022200	Paxs	825.64	Joback Method
dvisc	0.0024784	Paxs	765.91	Joback Method
dvisc	0.0028189	Paxs	706.17	Joback Method
dvisc	0.0032833	Paxs	646.44	Joback Method
dvisc	0.0039449	Paxs	586.71	Joback Method
dvisc	0.0049412	Paxs	526.98	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=U339768&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339768&amp;Units=SI</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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