

# 1,2-Cyclohexanedicarboxylic acid, cyclohex-3-enylmethyl hexyl ester

Inchi:	InChI=1S/C21H34O4/c1-2-3-4-10-15-24-20(22)18-13-8-9-14-19(18)21(23)25-16-17-11-6
InchiKey:	GQFLOEOTHCQOOA-UHFFFAOYSA-N
Formula:	C21H34O4
SMILES:	CCCCCOC(=O)C1CCCCC1C(=O)OCC1CC=CCC1
Mol. weight [g/mol]:	350.49

## Physical Properties

Property code	Value	Unit	Source
gf	-270.75	kJ/mol	Joback Method
hf	-820.29	kJ/mol	Joback Method
hfus	41.68	kJ/mol	Joback Method
hvap	81.49	kJ/mol	Joback Method
log10ws	-5.26		Crippen Method
logp	4.816		Crippen Method
mvol	295.610	ml/mol	McGowan Method
pc	1342.74	kPa	Joback Method
rinpol	2513.00		NIST Webbook
rinpol	2513.00		NIST Webbook
tb	866.05	K	Joback Method
tc	1080.10	K	Joback Method
tf	482.03	K	Joback Method
vc	1.111	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	999.32	J/molxK	866.05	Joback Method
cpg	1079.40	J/molxK	1044.42	Joback Method
cpg	1066.66	J/molxK	1008.75	Joback Method
cpg	1052.31	J/molxK	973.07	Joback Method
cpg	1036.32	J/molxK	937.40	Joback Method
cpg	1018.67	J/molxK	901.72	Joback Method
cpg	1090.56	J/molxK	1080.10	Joback Method
dvisc	0.0000690	Paxs	866.05	Joback Method

dvisc	0.0000903	Paxs	802.05	Joback Method
dvisc	0.0001240	Paxs	738.04	Joback Method
dvisc	0.0001807	Paxs	674.04	Joback Method
dvisc	0.0002851	Paxs	610.04	Joback Method
dvisc	0.0005006	Paxs	546.03	Joback Method
dvisc	0.0010206	Paxs	482.03	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=U339871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339871&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>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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