

# 1,2-Cyclohexanedicarboxylic acid, cyclohexyloctyl ester

Inchi:	InChI=1S/C22H38O4/c1-2-3-4-5-6-12-17-25-21(23)19-15-10-11-16-20(19)22(24)26-18-1
InchiKey:	KFPCRDLEQZNHQP-UHFFFAOYSA-N
Formula:	C22H38O4
SMILES:	CCCCCCCCOC(=O)C1CCCCC1C(=O)OC1CCCCC1
Mol. weight [g/mol]:	366.53

## Physical Properties

Property code	Value	Unit	Source
gf	-292.29	kJ/mol	Joback Method
hf	-898.71	kJ/mol	Joback Method
hfus	43.05	kJ/mol	Joback Method
hvap	83.43	kJ/mol	Joback Method
log10ws	-6.17		Crippen Method
logp	5.572		Crippen Method
mvol	314.000	ml/mol	McGowan Method
pc	1221.70	kPa	Joback Method
rinpol	2596.00		NIST Webbook
rinpol	2596.00		NIST Webbook
tb	889.77	K	Joback Method
tc	1102.80	K	Joback Method
tf	492.54	K	Joback Method
vc	1.181	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1090.33	J/molxK	889.77	Joback Method
cpg	1172.11	J/molxK	1067.30	Joback Method
cpg	1159.18	J/molxK	1031.79	Joback Method
cpg	1144.57	J/molxK	996.29	Joback Method
cpg	1128.24	J/molxK	960.78	Joback Method
cpg	1110.17	J/molxK	925.28	Joback Method
cpg	1183.39	J/molxK	1102.80	Joback Method
dvisc	0.0000552	Paxs	889.77	Joback Method

dvisc	0.0000731	Paxs	823.56	Joback Method
dvisc	0.0001018	Paxs	757.36	Joback Method
dvisc	0.0001511	Paxs	691.15	Joback Method
dvisc	0.0002437	Paxs	624.95	Joback Method
dvisc	0.0004403	Paxs	558.75	Joback Method
dvisc	0.0009325	Paxs	492.54	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=U339764&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339764&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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