

# 1,2-Cyclohexanedicarboxylic acid, 2-cyclohexylethyl ester

Inchi:	InChI=1S/C24H40O4/c25-23(27-17-15-19-9-3-1-4-10-19)21-13-7-8-14-22(21)24(26)28-1
InchiKey:	YWSMAVGTWOSTET-UHFFFAOYSA-N
Formula:	C24H40O4
SMILES:	O=C(OCCC1CCCCC1)C1CCCCC1C(=O)OCCC1CCCCC1
Mol. weight [g/mol]:	392.57

## Physical Properties

Property code	Value	Unit	Source
gf	-251.00	kJ/mol	Joback Method
hf	-885.67	kJ/mol	Joback Method
hfus	40.07	kJ/mol	Joback Method
hvap	88.31	kJ/mol	Joback Method
log10ws	-6.31		Crippen Method
logp	5.820		Crippen Method
mcvol	331.320	ml/mol	McGowan Method
pc	1232.88	kPa	Joback Method
rinpol	2931.00		NIST Webbook
rinpol	2931.00		NIST Webbook
tb	955.08	K	Joback Method
tc	1186.38	K	Joback Method
tf	522.46	K	Joback Method
vc	1.226	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1212.07	J/molxK	955.08	Joback Method
cpg	1231.45	J/molxK	993.63	Joback Method
cpg	1248.55	J/molxK	1032.18	Joback Method
cpg	1263.40	J/molxK	1070.73	Joback Method
cpg	1276.07	J/molxK	1109.28	Joback Method
cpg	1286.60	J/molxK	1147.83	Joback Method
cpg	1295.03	J/molxK	1186.38	Joback Method
dvisc	0.0008281	Paxs	522.46	Joback Method

dvisc	0.0003733	Paxs	594.56	Joback Method
dvisc	0.0002000	Paxs	666.67	Joback Method
dvisc	0.0001210	Paxs	738.77	Joback Method
dvisc	0.0000801	Paxs	810.87	Joback Method
dvisc	0.0000567	Paxs	882.98	Joback Method
dvisc	0.0000423	Paxs	955.08	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=U339735&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339735&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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