

# 1,2-Cyclohexanedicarboxylic acid, 2-methoxyethyl nonyl ester

Inchi:	InChI=1S/C20H36O5/c1-3-4-5-6-7-8-11-14-24-19(21)17-12-9-10-13-18(17)20(22)25-16-
InchiKey:	HPFXUVGIVFPCID-UHFFFAOYSA-N
Formula:	C20H36O5
SMILES:	CCCCCCCCCOC(=O)C1CCCCC1C(=O)OCCOC
Mol. weight [g/mol]:	356.50

## Physical Properties

Property code	Value	Unit	Source
gf	-438.58	kJ/mol	Joback Method
hf	-1043.97	kJ/mol	Joback Method
hfus	47.22	kJ/mol	Joback Method
hvap	80.96	kJ/mol	Joback Method
log10ws	-4.42		Crippen Method
logp	4.276		Crippen Method
mvol	302.550	ml/mol	McGowan Method
pc	1196.48	kPa	Joback Method
rinpol	2433.00		NIST Webbook
rinpol	2433.00		NIST Webbook
tb	846.88	K	Joback Method
tc	1043.91	K	Joback Method
tf	484.85	K	Joback Method
vc	1.153	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1001.22	J/molxK	846.88	Joback Method
cpg	1019.91	J/molxK	879.72	Joback Method
cpg	1037.20	J/molxK	912.56	Joback Method
cpg	1053.09	J/molxK	945.40	Joback Method
cpg	1067.58	J/molxK	978.23	Joback Method
cpg	1080.68	J/molxK	1011.07	Joback Method
cpg	1092.41	J/molxK	1043.91	Joback Method
dvisc	0.0007025	Paxs	484.85	Joback Method

dvisc	0.0003600	Paxs	545.19	Joback Method
dvisc	0.0002108	Paxs	605.53	Joback Method
dvisc	0.0001360	Paxs	665.87	Joback Method
dvisc	0.0000943	Paxs	726.20	Joback Method
dvisc	0.0000692	Paxs	786.54	Joback Method
dvisc	0.0000531	Paxs	846.88	Joback Method

## Sources

<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=U340031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U340031&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>

## 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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