

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

<b>Inchi:</b>	InChI=1S/C18H32O5/c1-3-4-5-6-9-12-22-17(19)15-10-7-8-11-16(15)18(20)23-14-13-21-2
<b>InchiKey:</b>	REFRBEIGSXVJAQ-UHFFFAOYSA-N
<b>Formula:</b>	C18H32O5
<b>SMILES:</b>	CCCCCCCOC(=O)C1CCCCC1C(=O)OCCOC
<b>Mol. weight [g/mol]:</b>	328.44

## Physical Properties

Property code	Value	Unit	Source
gf	-455.42	kJ/mol	Joback Method
hf	-1002.69	kJ/mol	Joback Method
hfus	42.04	kJ/mol	Joback Method
hvap	76.50	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	3.496		Crippen Method
mvol	274.370	ml/mol	McGowan Method
pc	1372.76	kPa	Joback Method
rinpol	2226.00		NIST Webbook
rinpol	2226.00		NIST Webbook
tb	801.12	K	Joback Method
tc	996.18	K	Joback Method
tf	462.31	K	Joback Method
vc	1.042	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	880.01	J/molxK	801.12	Joback Method
cpg	898.52	J/molxK	833.63	Joback Method
cpg	915.76	J/molxK	866.14	Joback Method
cpg	931.71	J/molxK	898.65	Joback Method
cpg	946.39	J/molxK	931.16	Joback Method
cpg	959.78	J/molxK	963.67	Joback Method
cpg	971.90	J/molxK	996.18	Joback Method
dvisc	0.0008608	Paxs	462.31	Joback Method

dvisc	0.0004515	Paxs	518.78	Joback Method
dvisc	0.0002688	Paxs	575.25	Joback Method
dvisc	0.0001756	Paxs	631.72	Joback Method
dvisc	0.0001230	Paxs	688.18	Joback Method
dvisc	0.0000909	Paxs	744.65	Joback Method
dvisc	0.0000702	Paxs	801.12	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=U340029&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U340029&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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