

# 1,2-Cyclohexanedicarboxylic acid, di(2-methylbutyl) ester

Inchi:	InChI=1S/C18H32O4/c1-5-13(3)11-21-17(19)15-9-7-8-10-16(15)18(20)22-12-14(4)6-2/h
InchiKey:	FWZDSPHHDLTINI-UHFFFAOYSA-N
Formula:	C18H32O4
SMILES:	CCC(C)COC(=O)C1CCCCC1C(=O)OCC(C)CC
Mol. weight [g/mol]:	312.44

## Physical Properties

Property code	Value	Unit	Source
gf	-355.30	kJ/mol	Joback Method
hf	-881.03	kJ/mol	Joback Method
hfus	33.81	kJ/mol	Joback Method
hvap	73.32	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	3.971		Crippen Method
mcvol	268.500	ml/mol	McGowan Method
pc	1406.95	kPa	Joback Method
rinpol	2050.00		NIST Webbook
rinpol	2050.00		NIST Webbook
tb	777.82	K	Joback Method
tc	976.97	K	Joback Method
tf	410.08	K	Joback Method
vc	1.012	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	849.75	J/molxK	777.82	Joback Method
cpg	934.35	J/molxK	943.78	Joback Method
cpg	919.99	J/molxK	910.59	Joback Method
cpg	904.36	J/molxK	877.39	Joback Method
cpg	887.45	J/molxK	844.20	Joback Method
cpg	869.25	J/molxK	811.01	Joback Method
cpg	947.45	J/molxK	976.97	Joback Method
dvisc	0.0000784	Paxs	777.82	Joback Method

dvisc	0.0001054	Paxs	716.53	Joback Method
dvisc	0.0001498	Paxs	655.24	Joback Method
dvisc	0.0002290	Paxs	593.95	Joback Method
dvisc	0.0003860	Paxs	532.66	Joback Method
dvisc	0.0007450	Paxs	471.37	Joback Method
dvisc	0.0017505	Paxs	410.08	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=U339556&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339556&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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