

# 1,2-Cyclohexanedicarboxylic acid, di(3-methylbut-2-yl) ester

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

## Physical Properties

Property code	Value	Unit	Source
gf	-360.18	kJ/mol	Joback Method
hf	-891.59	kJ/mol	Joback Method
hfus	26.76	kJ/mol	Joback Method
hvap	72.54	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	3.968		Crippen Method
mcvol	268.500	ml/mol	McGowan Method
pc	1423.99	kPa	Joback Method
rinpol	1952.00		NIST Webbook
rinpol	1952.00		NIST Webbook
tb	776.94	K	Joback Method
tc	981.30	K	Joback Method
tf	380.08	K	Joback Method
vc	1.000	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	850.71	J/molxK	776.94	Joback Method
cpg	937.03	J/molxK	947.24	Joback Method
cpg	922.51	J/molxK	913.18	Joback Method
cpg	906.63	J/molxK	879.12	Joback Method
cpg	889.38	J/molxK	845.06	Joback Method
cpg	870.74	J/molxK	811.00	Joback Method
cpg	950.22	J/molxK	981.30	Joback Method
dvisc	0.0000663	Paxs	776.94	Joback Method

dvisc	0.0000924	Paxs	710.80	Joback Method
dvisc	0.0001379	Paxs	644.65	Joback Method
dvisc	0.0002254	Paxs	578.51	Joback Method
dvisc	0.0004181	Paxs	512.37	Joback Method
dvisc	0.0009317	Paxs	446.22	Joback Method
dvisc	0.0027441	Paxs	380.08	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=U339571&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339571&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>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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