

# (Z)-3,3-dimethylcyclohexane-«DELTA»1,«beta»-et

Inchi:  
**acetate**

InChI=1S/C12H20O2/c1-12(2)8-4-6-10(9-12)5-3-7-11(13)14/h5H,3-4,6-9H2,1-2H3,(H,13

InchiKey:

MOVMOZAHZNEFET-YHYXMXQVSA-N

Formula:

C12H20O2

SMILES:

CC1(C)CCCC(=CCCC(=O)O)C1

Mol. weight [g/mol]:

196.29

## Physical Properties

Property code	Value	Unit	Source
gf	-151.16	kJ/mol	Joback Method
hf	-410.23	kJ/mol	Joback Method
hfus	18.38	kJ/mol	Joback Method
hvap	65.80	kJ/mol	Joback Method
log10ws	-3.45		Crippen Method
logp	3.378		Crippen Method
mcvol	172.220	ml/mol	McGowan Method
pc	2668.02	kPa	Joback Method
rinpol	1325.00		NIST Webbook
rinpol	1325.00		NIST Webbook
tb	646.44	K	Joback Method
tc	847.77	K	Joback Method
tf	377.39	K	Joback Method
vc	0.646	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	469.07	J/mol×K	646.44	Joback Method
cpg	484.04	J/mol×K	680.00	Joback Method
cpg	498.28	J/mol×K	713.55	Joback Method
cpg	511.90	J/mol×K	747.11	Joback Method
cpg	524.99	J/mol×K	780.66	Joback Method
cpg	537.65	J/mol×K	814.22	Joback Method
cpg	549.98	J/mol×K	847.77	Joback Method

# Sources

<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=R216489&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R216489&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>h vap:</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>r in pol:</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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