

# 3-Methyladipic acid, anhydride with acetic acid

<b>Inchi:</b>	InChI=1S/C9H14O5/c1-6(5-8(11)12)3-4-9(13)14-7(2)10/h6H,3-5H2,1-2H3,(H,11,12)
<b>InchiKey:</b>	NBRVWVSCRRSWQW-UHFFFAOYSA-N
<b>Formula:</b>	C9H14O5
<b>SMILES:</b>	CC(=O)OC(=O)CCC(C)CC(=O)O
<b>Mol. weight [g/mol]:</b>	202.20

## Physical Properties

Property code	Value	Unit	Source
gf	-606.12	kJ/mol	Joback Method
hf	-856.56	kJ/mol	Joback Method
hfus	25.62	kJ/mol	Joback Method
hvap	74.57	kJ/mol	Joback Method
log10ws	-1.09		Crippen Method
logp	0.967		Crippen Method
mcvol	154.120	ml/mol	McGowan Method
pc	3052.41	kPa	Joback Method
rinpol	1636.00		NIST Webbook
tb	681.09	K	Joback Method
tc	866.83	K	Joback Method
tf	409.03	K	Joback Method
vc	0.589	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	410.97	J/molxK	681.09	Joback Method
cpg	420.95	J/molxK	712.05	Joback Method
cpg	430.39	J/molxK	743.00	Joback Method
cpg	439.30	J/molxK	773.96	Joback Method
cpg	447.67	J/molxK	804.92	Joback Method
cpg	455.51	J/molxK	835.87	Joback Method
cpg	462.83	J/molxK	866.83	Joback Method
dvisc	0.0024732	Paxs	409.03	Joback Method
dvisc	0.0009844	Paxs	454.37	Joback Method

dvisc	0.0004631	Paxs	499.72	Joback Method
dvisc	0.0002470	Paxs	545.06	Joback Method
dvisc	0.0001451	Paxs	590.40	Joback Method
dvisc	0.0000919	Paxs	635.75	Joback Method
dvisc	0.0000619	Paxs	681.09	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=U374904&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374904&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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

Latest version available from:

<https://www.cheméo.com/cid/56-970-3/3-Methyladipic-acid-anhydride-with-acetic-acid.pdf>

Generated by Cheméo on 2024-04-29 19:39:27.800083769 +0000 UTC m=+16708816.720661082.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.