

# Hexanedioic acid, 2-methyl-5-methylene-, dimethyl ester

<b>Other names:</b>	Dimethyl ester of 2-methyl-5-methylene-1,6-hexanedioic acid dimethyl 2-methyl-5-methyleneadipate
<b>Inchi:</b>	InChI=1S/C10H16O4/c1-7(9(11)13-3)5-6-8(2)10(12)14-4/h8H,1,5-6H2,2-4H3
<b>InchiKey:</b>	SUISJNPVANLQPB-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O4
<b>SMILES:</b>	<chem>C=C(CCC(C)C(=O)OC)C(=O)OC</chem>
<b>Mol. weight [g/mol]:</b>	200.23
<b>CAS:</b>	4513-62-6

## Physical Properties

Property code	Value	Unit	Source
gf	-357.67	kJ/mol	Joback Method
hf	-628.97	kJ/mol	Joback Method
hfus	21.12	kJ/mol	Joback Method
hvap	55.19	kJ/mol	Joback Method
log10ws	-1.35		Crippen Method
logp	1.305		Crippen Method
mcvol	162.340	ml/mol	McGowan Method
pc	2424.27	kPa	Joback Method
tb	576.90	K	Joback Method
tc	766.55	K	Joback Method
tf	316.06	K	Joback Method
vc	0.620	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	395.54	J/molxK	576.90	Joback Method
cpg	408.60	J/molxK	608.51	Joback Method
cpg	421.08	J/molxK	640.12	Joback Method
cpg	432.97	J/molxK	671.72	Joback Method
cpg	444.29	J/molxK	703.33	Joback Method
cpg	455.02	J/molxK	734.94	Joback Method
cpg	465.16	J/molxK	766.55	Joback Method

# Sources

<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>
<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=C4513626&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4513626&amp;Units=SI</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>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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