

# 2-methylallyl 2-methylbutyrate

<b>Other names:</b>	2-Methylallyl 2-methylbutanoate
<b>Inchi:</b>	InChI=1S/C9H16O2/c1-5-8(4)9(10)11-6-7(2)3/h8H,2,5-6H2,1,3-4H3
<b>InchiKey:</b>	FSSVRXASHHVANB-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O2
<b>SMILES:</b>	<chem>C=C(C)COC(=O)C(C)CC</chem>
<b>Mol. weight [g/mol]:</b>	156.22
<b>CAS:</b>	83783-90-8

## Physical Properties

Property code	Value	Unit	Source
gf	-132.17	kJ/mol	Joback Method
hf	-363.53	kJ/mol	Joback Method
hfus	15.74	kJ/mol	Joback Method
hvap	43.81	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	2.152		Crippen Method
mcvol	140.810	ml/mol	McGowan Method
pc	2548.19	kPa	Joback Method
rinpol	1018.10		NIST Webbook
rinpol	1018.10		NIST Webbook
tb	477.73	K	Joback Method
tc	661.84	K	Joback Method
tf	232.63	K	Joback Method
vc	0.539	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.50	J/molxK	477.73	Joback Method
cpg	318.73	J/molxK	508.42	Joback Method
cpg	331.41	J/molxK	539.10	Joback Method
cpg	343.57	J/molxK	569.79	Joback Method
cpg	355.20	J/molxK	600.47	Joback Method
cpg	366.31	J/molxK	631.16	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C83783908&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C83783908&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.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>

## 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>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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