

# Oo-t-butyl o-methylsuccinate

<b>Inchi:</b>	InChI=1S/C9H16O5/c1-9(2,3)14-13-8(11)6-5-7(10)12-4/h5-6H2,1-4H3
<b>InchiKey:</b>	VAMBMSNSIPIASM-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O5
<b>SMILES:</b>	<chem>COC(=O)CCC(=O)OOC(C)(C)C</chem>
<b>Mol. weight [g/mol]:</b>	204.22
<b>CAS:</b>	29269-20-3

## Physical Properties

Property code	Value	Unit	Source
gf	-545.10	kJ/mol	Joback Method
hf	-859.66	kJ/mol	Joback Method
hfl	-841.00 ± 3.00	kJ/mol	NIST Webbook
hfus	18.41	kJ/mol	Joback Method
hvap	55.05	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	1.213		Crippen Method
mcvol	158.420	ml/mol	McGowan Method
pc	2530.27	kPa	Joback Method
tb	577.09	K	Joback Method
tc	767.73	K	Joback Method
tf	360.16	K	Joback Method
vc	0.595	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.16	J/mol×K	577.09	Joback Method
cpg	409.08	J/mol×K	608.86	Joback Method
cpg	421.41	J/mol×K	640.64	Joback Method
cpg	433.14	J/mol×K	672.41	Joback Method
cpg	444.28	J/mol×K	704.19	Joback Method
cpg	454.81	J/mol×K	735.96	Joback Method
cpg	464.73	J/mol×K	767.73	Joback Method
dvisc	0.0015949	Paxs	360.16	Joback Method

dvisc	0.0009004	Paxs	396.31	Joback Method
dvisc	0.0005593	Paxs	432.47	Joback Method
dvisc	0.0003739	Paxs	468.62	Joback Method
dvisc	0.0002648	Paxs	504.78	Joback Method
dvisc	0.0001964	Paxs	540.93	Joback Method
dvisc	0.0001512	Paxs	577.09	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=C29269203&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29269203&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>

## 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>hfl:</b>	Liquid phase 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>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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