

# 9,9-Dimethoxybicyclo[3.3.1]nona-2,4-dione

<b>Inchi:</b>	InChI=1S/C11H16O4/c1-14-11(15-2)7-4-3-5-8(11)10(13)6-9(7)12/h7-8H,3-6H2,1-2H3
<b>InchiKey:</b>	CFBRRDQMCNWXLH-UHFFFAOYSA-N
<b>Formula:</b>	C11H16O4
<b>SMILES:</b>	COC1(OC)C2CCCC1C(=O)CC2=O
<b>Mol. weight [g/mol]:</b>	212.24
<b>CAS:</b>	117132-08-8

## Physical Properties

Property code	Value	Unit	Source
gf	-341.44	kJ/mol	Joback Method
hf	-688.19	kJ/mol	Joback Method
hfus	10.38	kJ/mol	Joback Method
hvap	52.28	kJ/mol	Joback Method
log10ws	-1.07		Crippen Method
logp	0.934		Crippen Method
mcvol	159.010	ml/mol	McGowan Method
pc	2796.51	kPa	Joback Method
rinpol	2148.00		NIST Webbook
rinpol	2148.00		NIST Webbook
tb	653.42	K	Joback Method
tc	895.58	K	Joback Method
tf	439.61	K	Joback Method
vc	0.589	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.34	J/molxK	653.42	Joback Method
cpg	481.69	J/molxK	693.78	Joback Method
cpg	500.06	J/molxK	734.14	Joback Method
cpg	517.50	J/molxK	774.50	Joback Method
cpg	534.08	J/molxK	814.86	Joback Method
cpg	549.86	J/molxK	855.22	Joback Method
cpg	564.91	J/molxK	895.58	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=C117132088&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C117132088&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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