

# endo-Bicyclo[2.2.1]heptan-2-carboxylic acid, methyl ester

Inchi:	InChI=1S/C9H14O2/c1-11-9(10)8-5-6-2-3-7(8)4-6/h6-8H,2-5H2,1H3/t6-,7+,8-/m1/s1
InchiKey:	BWGIKEUGPCOETD-GJMOJQLCSA-N
Formula:	C9H14O2
SMILES:	COC(=O)C1CC2CCC1C2
Mol. weight [g/mol]:	154.21

## Physical Properties

Property code	Value	Unit	Source
gf	-107.33	kJ/mol	Joback Method
hf	-354.79	kJ/mol	Joback Method
hfus	17.09	kJ/mol	Joback Method
hvap	44.47	kJ/mol	Joback Method
log10ws	-1.52		Crippen Method
logp	1.596		Crippen Method
mcvol	123.390	ml/mol	McGowan Method
pc	3142.03	kPa	Joback Method
rinpola	1131.00		NIST Webbook
ripola	1507.00		NIST Webbook
ripol	1507.00		NIST Webbook
tb	494.69	K	Joback Method
tc	703.45	K	Joback Method
tf	291.47	K	Joback Method
vc	0.469	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.85	J/molxK	494.69	Joback Method
cpg	311.49	J/molxK	529.48	Joback Method
cpg	327.15	J/molxK	564.28	Joback Method
cpg	341.89	J/molxK	599.07	Joback Method
cpg	355.75	J/molxK	633.86	Joback Method
cpg	368.76	J/molxK	668.65	Joback Method
cpg	380.99	J/molxK	703.45	Joback Method

dvisc	0.0015354	Paxs	291.47	Joback Method
dvisc	0.0013027	Paxs	325.34	Joback Method
dvisc	0.0011401	Paxs	359.21	Joback Method
dvisc	0.0010209	Paxs	393.08	Joback Method
dvisc	0.0009304	Paxs	426.95	Joback Method
dvisc	0.0008595	Paxs	460.82	Joback Method
dvisc	0.0008027	Paxs	494.69	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R13183&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R13183&amp;Units=SI</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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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