

# exo-Bicyclo[2.2.1]heptan-2-carboxylic acid, 7,7-cyclopropano-2-methyl, methyl ester

**Inchi:** InChI=1S/C12H18O2/c1-11(10(13)14-2)7-8-3-4-9(11)12(8)5-6-12/h8-9H,3-7H2,1-2H3/t8-  
**InchiKey:** BYBXYWJLTXNRDH-WCABBAIRSA-N  
**Formula:** C12H18O2  
**SMILES:** COC(=O)C1(C)CC2CCC1C21CC1  
**Mol. weight [g/mol]:** 194.27

## Physical Properties

Property code	Value	Unit	Source
gf	-20.20	kJ/mol	Joback Method
hf	-307.27	kJ/mol	Joback Method
hfus	12.50	kJ/mol	Joback Method
hvap	48.59	kJ/mol	Joback Method
log10ws	-2.43		Crippen Method
logp	2.376		Crippen Method
mcvol	154.800	ml/mol	McGowan Method
pc	2838.39	kPa	Joback Method
rinpol	1291.00		NIST Webbook
ripol	1623.00		NIST Webbook
tb	566.28	K	Joback Method
tc	790.33	K	Joback Method
tf	394.54	K	Joback Method
vc	0.598	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	421.85	J/molxK	566.28	Joback Method
cpg	439.88	J/molxK	603.62	Joback Method
cpg	456.57	J/molxK	640.96	Joback Method
cpg	472.22	J/molxK	678.31	Joback Method
cpg	487.11	J/molxK	715.65	Joback Method
cpg	501.54	J/molxK	752.99	Joback Method
cpg	515.81	J/molxK	790.33	Joback Method

# Sources

<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=R13254&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R13254&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>

# 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>rinpola:</b>	Non-polar retention indices
<b>ripola:</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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