

# 4,10,10-trimethyl-7-methylenebicyclo[6.2.0]decane-4-carbaldehyde

Inchi:	InChI=1S/C15H24O/c1-11-5-7-15(4,10-16)8-6-13-12(11)9-14(13,2)3/h10,12-13H,1,5-9H2
InchiKey:	PGESEZMTIVWZDC-UHFFFAOYSA-N
Formula:	C15H24O
SMILES:	C=C1CCC(C)(C=O)CCC2C1CC2(C)C
Mol. weight [g/mol]:	220.35

## Physical Properties

Property code	Value	Unit	Source
gf	75.68	kJ/mol	Joback Method
hf	-243.51	kJ/mol	Joback Method
hfus	13.15	kJ/mol	Joback Method
hvap	53.46	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	3.984		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2102.27	kPa	Joback Method
ripol	2004.00		NIST Webbook
ripol	2004.00		NIST Webbook
tb	612.12	K	Joback Method
tc	838.03	K	Joback Method
tf	375.61	K	Joback Method
vc	0.752	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	547.55	J/mol×K	612.12	Joback Method
cpg	569.44	J/mol×K	649.77	Joback Method
cpg	590.12	J/mol×K	687.42	Joback Method
cpg	609.81	J/mol×K	725.07	Joback Method
cpg	628.77	J/mol×K	762.73	Joback Method
cpg	647.23	J/mol×K	800.38	Joback Method
cpg	665.43	J/mol×K	838.03	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.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>
<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=R298812&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R298812&amp;Units=SI</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>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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