

# Carbonic acid, monoamide, N-isobutyl-, menthyl ester

Inchi:	InChI=1S/C15H29NO2/c1-10(2)9-16-15(17)18-14-8-12(5)6-7-13(14)11(3)4/h10-14H,6-9H
InchiKey:	OGWAITVDDYTMRF-UHFFFAOYSA-N
Formula:	C15H29NO2
SMILES:	CC(C)CNC(=O)OC1CC(C)CCC1C(C)C
Mol. weight [g/mol]:	255.40

## Physical Properties

Property code	Value	Unit	Source
gf	-64.96	kJ/mol	Joback Method
hf	-541.18	kJ/mol	Joback Method
hfus	29.42	kJ/mol	Joback Method
hvap	63.61	kJ/mol	Joback Method
log10ws	-4.17		Crippen Method
logp	3.829		Crippen Method
mcvol	228.770	ml/mol	McGowan Method
pc	1674.16	kPa	Joback Method
rinpol	1855.00		NIST Webbook
rinpol	1855.00		NIST Webbook
tb	678.39	K	Joback Method
tc	877.65	K	Joback Method
tf	352.53	K	Joback Method
vc	0.854	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	682.04	J/molxK	678.39	Joback Method
cpg	703.12	J/molxK	711.60	Joback Method
cpg	722.99	J/molxK	744.81	Joback Method
cpg	741.68	J/molxK	778.02	Joback Method
cpg	759.19	J/molxK	811.23	Joback Method
cpg	775.54	J/molxK	844.44	Joback Method
cpg	790.74	J/molxK	877.65	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=U415194&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415194&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>hvp:</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>rinp:</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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