

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

<b>Inchi:</b>	InChI=1S/C16H31NO2/c1-5-6-7-10-17-16(18)19-15-11-13(4)8-9-14(15)12(2)3/h12-15H,5
<b>InchiKey:</b>	NUNDBFKCSPKBBF-UHFFFAOYSA-N
<b>Formula:</b>	C16H31NO2
<b>SMILES:</b>	CCCCCNC(=O)OC1CC(C)CCC1C(C)C
<b>Mol. weight [g/mol]:</b>	269.42

## Physical Properties

Property code	Value	Unit	Source
gf	-54.10	kJ/mol	Joback Method
hf	-556.54	kJ/mol	Joback Method
hfus	35.54	kJ/mol	Joback Method
hvap	66.22	kJ/mol	Joback Method
log10ws	-4.83		Crippen Method
logp	4.364		Crippen Method
mvol	242.860	ml/mol	McGowan Method
pc	1540.29	kPa	Joback Method
rinpol	2002.00		NIST Webbook
rinpol	2002.00		NIST Webbook
tb	701.71	K	Joback Method
tc	895.90	K	Joback Method
tf	378.80	K	Joback Method
vc	0.915	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	739.32	J/mol×K	701.71	Joback Method
cpg	760.18	J/mol×K	734.08	Joback Method
cpg	779.85	J/mol×K	766.44	Joback Method
cpg	798.35	J/mol×K	798.81	Joback Method
cpg	815.70	J/mol×K	831.17	Joback Method
cpg	831.92	J/mol×K	863.54	Joback Method
cpg	847.01	J/mol×K	895.90	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=U415197&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415197&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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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