

# Carbonic acid, monoamide, N-hept-2-yl-, octyl ester

Inchi:	InChI=1S/C16H33NO2/c1-4-6-8-9-10-12-14-19-16(18)17-15(3)13-11-7-5-2/h15H,4-14H2
InchiKey:	RZUPQBHXUGKNQT-UHFFFAOYSA-N
Formula:	C16H33NO2
SMILES:	CCCCCCCCOC(=O)NC(C)CCCCC
Mol. weight [g/mol]:	271.44

## Physical Properties

Property code	Value	Unit	Source
gf	-63.13	kJ/mol	Joback Method
hf	-570.18	kJ/mol	Joback Method
hfus	41.56	kJ/mol	Joback Method
hvap	66.41	kJ/mol	Joback Method
log10ws	-5.66		Crippen Method
logp	5.042		Crippen Method
mcvol	253.720	ml/mol	McGowan Method
pc	1385.05	kPa	Joback Method
rinpola	1910.00		NIST Webbook
rinpola	1910.00		NIST Webbook
tb	691.50	K	Joback Method
tc	864.93	K	Joback Method
tf	379.90	K	Joback Method
vc	0.985	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	739.65	J/mol×K	691.50	Joback Method
cpg	757.48	J/mol×K	720.40	Joback Method
cpg	774.48	J/mol×K	749.31	Joback Method
cpg	790.66	J/mol×K	778.21	Joback Method
cpg	806.05	J/mol×K	807.12	Joback Method
cpg	820.67	J/mol×K	836.02	Joback Method
cpg	834.52	J/mol×K	864.93	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406446&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406446&amp;Units=SI</a>
<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>

# 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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