

# Carbonic acid, monoamide, N-octyl-, but-3-yn-1-yl ester

Inchi:	InChI=1S/C13H23NO2/c1-3-5-7-8-9-10-11-14-13(15)16-12-6-4-2/h2H,3,5-12H2,1H3,(H,1
InchiKey:	QFHNNHYNSHSIW-UHFFFAOYSA-N
Formula:	C13H23NO2
SMILES:	C#CCCOC(=O)NCCCCCCCC
Mol. weight [g/mol]:	225.33

## Physical Properties

Property code	Value	Unit	Source
gf	137.12	kJ/mol	Joback Method
hf	-211.08	kJ/mol	Joback Method
hfus	40.29	kJ/mol	Joback Method
hvap	59.98	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.096		Crippen Method
mvol	202.850	ml/mol	McGowan Method
pc	1959.60	kPa	Joback Method
rinpol	1930.00		NIST Webbook
rinpol	1930.00		NIST Webbook
tb	613.42	K	Joback Method
tc	793.56	K	Joback Method
tf	408.06	K	Joback Method
vc	0.784	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	529.57	J/mol×K	613.42	Joback Method
cpg	544.78	J/mol×K	643.44	Joback Method
cpg	559.29	J/mol×K	673.47	Joback Method
cpg	573.12	J/mol×K	703.49	Joback Method
cpg	586.28	J/mol×K	733.51	Joback Method
cpg	598.79	J/mol×K	763.53	Joback Method
cpg	610.68	J/mol×K	793.56	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.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=U415466&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415466&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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