

# Carbonic acid, but-2-yn-1-yl nonyl ester

<b>Inchi:</b>	InChI=1S/C14H24O3/c1-3-5-7-8-9-10-11-13-17-14(15)16-12-6-4-2/h3,5,7-13H2,1-2H3
<b>InchiKey:</b>	BINCOBLXQNPJDN-UHFFFAOYSA-N
<b>Formula:</b>	C14H24O3
<b>SMILES:</b>	CC#CCOC(=O)OCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	240.34

## Physical Properties

Property code	Value	Unit	Source
gf	-69.12	kJ/mol	Joback Method
hf	-437.01	kJ/mol	Joback Method
hfus	39.11	kJ/mol	Joback Method
hvap	60.48	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	3.913		Crippen Method
mvol	212.830	ml/mol	McGowan Method
pc	1775.84	kPa	Joback Method
rinpol	1734.00		NIST Webbook
rinpol	1734.00		NIST Webbook
tb	627.43	K	Joback Method
tc	811.37	K	Joback Method
tf	448.03	K	Joback Method
vc	0.824	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	556.57	J/mol×K	627.43	Joback Method
cpg	572.78	J/mol×K	658.09	Joback Method
cpg	588.28	J/mol×K	688.74	Joback Method
cpg	603.08	J/mol×K	719.40	Joback Method
cpg	617.19	J/mol×K	750.06	Joback Method
cpg	630.60	J/mol×K	780.72	Joback Method
cpg	643.31	J/mol×K	811.37	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=U383205&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U383205&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>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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