

# Carbonic acid, eicosyl prop-1-en-2-yl ester

**Inchi:** InChI=1S/C24H46O3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-26-24(25)  
**InchiKey:** OAPBQASOEAWKI-UHFFFAOYSA-N  
**Formula:** C24H46O3  
**SMILES:** C=C(C)OC(=O)OCCCCCCCCCCCCCCCCCCCCC  
**Mol. weight [g/mol]:** 382.62

## Physical Properties

Property code	Value	Unit	Source
gf	-108.43	kJ/mol	Joback Method
hf	-800.07	kJ/mol	Joback Method
hfus	59.30	kJ/mol	Joback Method
hvap	79.99	kJ/mol	Joback Method
log10ws	-9.15		Crippen Method
logp	8.715		Crippen Method
mcvol	358.030	ml/mol	McGowan Method
pc	842.11	kPa	Joback Method
rinpol	2579.00		NIST Webbook
rinpol	2579.00		NIST Webbook
tb	843.79	K	Joback Method
tc	1033.04	K	Joback Method
tf	438.91	K	Joback Method
vc	1.403	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1162.51	J/molxK	843.79	Joback Method
cpg	1183.46	J/molxK	875.33	Joback Method
cpg	1203.20	J/molxK	906.87	Joback Method
cpg	1221.76	J/molxK	938.41	Joback Method
cpg	1239.18	J/molxK	969.95	Joback Method
cpg	1255.50	J/molxK	1001.50	Joback Method
cpg	1270.74	J/molxK	1033.04	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=U383108&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U383108&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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