

# Carbonic acid, eicosyl vinyl ester

**Inchi:** InChI=1S/C23H44O3/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-26-23(24)  
**InchiKey:** ATKGMLUBBPOBFK-UHFFFAOYSA-N  
**Formula:** C23H44O3  
**SMILES:** C=COC(=O)OCCCCCCCCCCCCCCCCCCCCC  
**Mol. weight [g/mol]:** 368.59

## Physical Properties

Property code	Value	Unit	Source
gf	-108.30	kJ/mol	Joback Method
hf	-769.64	kJ/mol	Joback Method
hfus	58.02	kJ/mol	Joback Method
hvap	77.69	kJ/mol	Joback Method
log10ws	-8.73		Crippen Method
logp	8.325		Crippen Method
mvol	343.940	ml/mol	McGowan Method
pc	888.41	kPa	Joback Method
rinpol	2497.00		NIST Webbook
rinpol	2497.00		NIST Webbook
tb	821.03	K	Joback Method
tc	1005.40	K	Joback Method
tf	441.60	K	Joback Method
vc	1.347	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1099.94	J/molxK	821.03	Joback Method
cpg	1120.34	J/molxK	851.76	Joback Method
cpg	1139.62	J/molxK	882.49	Joback Method
cpg	1157.79	J/molxK	913.21	Joback Method
cpg	1174.90	J/molxK	943.94	Joback Method
cpg	1190.95	J/molxK	974.67	Joback Method
cpg	1206.00	J/molxK	1005.40	Joback Method
dvisc	0.0008045	Paxs	441.60	Joback Method

dvisc	0.0003533	Paxs	504.84	Joback Method
dvisc	0.0001863	Paxs	568.08	Joback Method
dvisc	0.0001117	Paxs	631.32	Joback Method
dvisc	0.0000735	Paxs	694.55	Joback Method
dvisc	0.0000519	Paxs	757.79	Joback Method
dvisc	0.0000386	Paxs	821.03	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=U382543&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382543&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>rinpol:</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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