

# Carbonic acid, dodecyl vinyl ester

<b>Inchi:</b>	InChI=1S/C15H28O3/c1-3-5-6-7-8-9-10-11-12-13-14-18-15(16)17-4-2/h4H,2-3,5-14H2,1
<b>InchiKey:</b>	GRZYRAMKUMZKSZ-UHFFFAOYSA-N
<b>Formula:</b>	C15H28O3
<b>SMILES:</b>	C=COC(=O)OCCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	256.38

## Physical Properties

Property code	Value	Unit	Source
gf	-175.66	kJ/mol	Joback Method
hf	-604.52	kJ/mol	Joback Method
hfus	37.30	kJ/mol	Joback Method
hvap	59.88	kJ/mol	Joback Method
log10ws	-5.38		Crippen Method
logp	5.204		Crippen Method
mcvol	231.220	ml/mol	McGowan Method
pc	1494.19	kPa	Joback Method
rinpol	1708.00		NIST Webbook
rinpol	1708.00		NIST Webbook
tb	637.99	K	Joback Method
tc	807.91	K	Joback Method
tf	351.44	K	Joback Method
vc	0.898	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	628.28	J/molxK	637.99	Joback Method
cpg	644.98	J/molxK	666.31	Joback Method
cpg	660.97	J/molxK	694.63	Joback Method
cpg	676.25	J/molxK	722.95	Joback Method
cpg	690.84	J/molxK	751.27	Joback Method
cpg	704.76	J/molxK	779.59	Joback Method
cpg	717.99	J/molxK	807.91	Joback Method
dvisc	0.0017395	Paxs	351.44	Joback Method

dvisc	0.0008372	Paxs	399.20	Joback Method
dvisc	0.0004711	Paxs	446.96	Joback Method
dvisc	0.0002962	Paxs	494.71	Joback Method
dvisc	0.0002021	Paxs	542.47	Joback Method
dvisc	0.0001467	Paxs	590.23	Joback Method
dvisc	0.0001117	Paxs	637.99	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=U382548&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382548&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>

## 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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