

# Carbonic acid, allyl phenyl ester

<b>Inchi:</b>	InChI=1S/C10H10O3/c1-2-8-12-10(11)13-9-6-4-3-5-7-9/h2-7H,1,8H2
<b>InchiKey:</b>	ORUWSEKEVGQAQR-UHFFFAOYSA-N
<b>Formula:</b>	C10H10O3
<b>SMILES:</b>	C=CCOC(=O)Oc1ccccc1
<b>Mol. weight [g/mol]:</b>	178.18

## Physical Properties

Property code	Value	Unit	Source
gf	-105.35	kJ/mol	Joback Method
hf	-264.79	kJ/mol	Joback Method
hfus	18.39	kJ/mol	Joback Method
hvap	51.03	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.388		Crippen Method
mcvol	137.010	ml/mol	McGowan Method
pc	3170.40	kPa	Joback Method
rinpola	1291.00		NIST Webbook
tb	550.27	K	Joback Method
tc	765.17	K	Joback Method
tf	321.51	K	Joback Method
vc	0.510	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.05	J/molxK	550.27	Joback Method
cpg	361.15	J/molxK	729.35	Joback Method
cpg	351.32	J/molxK	693.53	Joback Method
cpg	340.80	J/molxK	657.72	Joback Method
cpg	329.59	J/molxK	621.90	Joback Method
cpg	317.68	J/molxK	586.09	Joback Method
cpg	370.31	J/molxK	765.17	Joback Method
dvisc	0.0001822	Paxs	550.27	Joback Method
dvisc	0.0002297	Paxs	512.14	Joback Method

dvisc	0.0003004	Paxs	474.02	Joback Method
dvisc	0.0004119	Paxs	435.89	Joback Method
dvisc	0.0006001	Paxs	397.76	Joback Method
dvisc	0.0009467	Paxs	359.64	Joback Method
dvisc	0.0016642	Paxs	321.51	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=U357805&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357805&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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

Latest version available from:

<https://www.chemeo.com/cid/42-816-9/Carbonic-acid-allyl-phenyl-ester.pdf>

Generated by Cheméo on 2024-04-26 03:28:11.096982064 +0000 UTC m=+16391340.017559380.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.