Carbonic acid, allyl cyclohexyl ester

Inchi: InChI=1S/C10H16O3/c1-2-8-12-10(11)13-9-6-4-3-5-7-9/h2,9H,1,3-8H2
InchiKey: FDNDILYEXVOGEO-UHFFFAOYSA-N
Formula: C10H16O3
SMILES: C=CCOC(=O)OC1CCCCC1
Mol. weight [g/mol]: 184.23

Physical Properties

Property code	Value	Unit	Source
gf	-193.31	kJ/mol	Joback Method
hf	-447.00	kJ/mol	Joback Method
hfus	16.19	kJ/mol	Joback Method
hvap	49.18	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.658		Crippen Method
mcvol	149.910	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
rinpol	1281.00		NIST Webbook
rinpol	1281.00		NIST Webbook
tb	543.14	K	Joback Method
tc	750.80	K	Joback Method
tf	302.47	K	Joback Method
vc	0.551	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.69	J/mol×K	543.14	Joback Method
cpg	379.54	J/mol×K	577.75	Joback Method
cpg	395.55	J/mol×K	612.36	Joback Method
cpg	410.70	J/mol×K	646.97	Joback Method
cpg	425.01	J/mol×K	681.58	Joback Method
cpg	438.49	J/mol×K	716.19	Joback Method
cpg	451.12	J/mol×K	750.80	Joback Method
dvisc	0.0028207	Pa×s	302.47	Joback Method

dvisc	0.0014044	Pa×s	342.58	Joback Method
dvisc	0.0008093	Pa×s	382.69	Joback Method
dvisc	0.0005178	Pa×s	422.81	Joback Method
dvisc	0.0003580	Pa×s	462.92	Joback Method
dvisc	0.0002625	Pa×s	503.03	Joback Method
dvisc	0.0002015	Pa×s	543.14	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357804&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume