Carbonic acid, but-3-en-1-yl pentyl ester

Inchi: InChI=1S/C10H18O3/c1-3-5-7-9-13-10(11)12-8-6-4-2/h4H,2-3,5-9H2,1H3
InchiKey: YHKXBTBQWQTTJP-UHFFFAOYSA-N
Formula: C10H18O3
SMILES: C=CCCOC(=O)OCCCCC
Mol. weight [g/mol]: 186.25

Physical Properties

Property code	Value	Unit	Source
gf	-217.76	kJ/mol	Joback Method
hf	-501.32	kJ/mol	Joback Method
hfus	24.35	kJ/mol	Joback Method
hvap	48.75	kJ/mol	Joback Method
log10ws	-2.79		Crippen Method
logp	2.906		Crippen Method
mcvol	160.770	ml/mol	McGowan Method
pc	2252.53	kPa	Joback Method
rinpol	1238.00		NIST Webbook
rinpol	1238.00		NIST Webbook
tb	523.59	K	Joback Method
tc	698.47	K	Joback Method
tf	295.09	K	Joback Method
vc	0.619	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.30	J/mol×K	523.59	Joback Method
cpg	437.34	J/mol×K	669.33	Joback Method
cpg	425.92	J/mol×K	640.18	Joback Method
cpg	414.01	J/mol×K	611.03	Joback Method
cpg	401.60	J/mol×K	581.88	Joback Method
cpg	388.70	J/mol×K	552.74	Joback Method
cpg	448.27	J/mol×K	698.47	Joback Method
dvisc	0.0001864	Pa×s	523.59	Joback Method

dvisc	0.0002397	Pa×s	485.51	Joback Method
dvisc	0.0003216	Pa×s	447.42	Joback Method
dvisc	0.0004558	Pa×s	409.34	Joback Method
dvisc	0.0006939	Pa×s	371.26	Joback Method
dvisc	0.0011630	Pa×s	333.17	Joback Method
dvisc	0.0022271	Pa×s	295.09	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U383225&Units=SI
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

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