Carbonic acid, octyl vinyl ester

Inchi: InChI=1S/C11H20O3/c1-3-5-6-7-8-9-10-14-11(12)13-4-2/h4H,2-3,5-10H2,1H3
InchiKey: CLIFQXSGOSIFPL-UHFFFAOYSA-N
Formula: C11H20O3
SMILES: C=COC(=O)OCCCCCCCC
Mol. weight [g/mol]: 200.27

Physical Properties

Property code	Value	Unit	Source
gf	-209.34	kJ/mol	Joback Method
hf	-521.96	kJ/mol	Joback Method
hfus	26.94	kJ/mol	Joback Method
hvap	50.98	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	3.644		Crippen Method
mcvol	174.860	ml/mol	McGowan Method
pc	2060.49	kPa	Joback Method
rinpol	1318.00		NIST Webbook
rinpol	1318.00		NIST Webbook
tb	546.47	K	Joback Method
tc	719.93	K	Joback Method
tf	306.36	K	Joback Method
vc	0.674	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.56	J/mol×K	546.47	Joback Method
cpg	436.77	J/mol×K	575.38	Joback Method
cpg	450.44	J/mol×K	604.29	Joback Method
cpg	463.57	J/mol×K	633.20	Joback Method
cpg	476.16	J/mol×K	662.11	Joback Method
cpg	488.21	J/mol×K	691.02	Joback Method
cpg	499.74	J/mol×K	719.93	Joback Method
dvisc	0.0021653	Pa×s	306.36	Joback Method

dvisc	0.0011102	Pa×s	346.38	Joback Method
dvisc	0.0006537	Pa×s	386.40	Joback Method
dvisc	0.0004251	Pa×s	426.42	Joback Method
dvisc	0.0002977	Pa×s	466.43	Joback Method
dvisc	0.0002205	Pa×s	506.45	Joback Method
dvisc	0.0001707	Pa×s	546.47	Joback Method

Sources

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=U383255&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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