Carbonic acid, prop-1-en-2-yl tetradecyl ester

Inchi: InChI=1S/C18H34O3/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-20-18(19)21-17(2)3/h2,4-16H
InchiKey: QOPSHGLHQQDKFP-UHFFFAOYSA-N
Formula: C18H34O3
SMILES: C=C(C)OC(=O)OCCCCCCCCCCCCCC
Mol. weight [g/mol]: 298.46

Physical Properties

Property code	Value	Unit	Source
gf	-158.95	kJ/mol	Joback Method
hf	-676.23	kJ/mol	Joback Method
hfus	43.76	kJ/mol	Joback Method
hvap	66.64	kJ/mol	Joback Method
log10ws	-6.63		Crippen Method
logp	6.374		Crippen Method
mcvol	273.490	ml/mol	McGowan Method
pc	1214.05	kPa	Joback Method
rinpol	1990.00		NIST Webbook
rinpol	1990.00		NIST Webbook
tb	706.51	K	Joback Method
tc	878.95	K	Joback Method
tf	371.29	K	Joback Method
vc	1.067	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	796.96	J/mol×K	706.51	Joback Method
cpg	815.18	J/mol×K	735.25	Joback Method
cpg	832.56	J/mol×K	763.99	Joback Method
cpg	849.11	J/mol×K	792.73	Joback Method
cpg	864.84	J/mol×K	821.47	Joback Method
cpg	879.77	J/mol×K	850.21	Joback Method
cpg	893.92	J/mol×K	878.95	Joback Method

Sources

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=U382909&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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