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

Inchi: InChI=1S/C14H26O3/c1-4-5-6-7-8-9-10-11-12-16-14(15)17-13(2)3/h2,4-12H2,1,3H3
InchiKey: GJLRPYPYWLJPPG-UHFFFAOYSA-N
Formula: C14H26O3
SMILES: C=C(C)OC(=O)OCCCCCCCCCC
Mol. weight [g/mol]: 242.35

Physical Properties

Property code	Value	Unit	Source
gf	-192.63	kJ/mol	Joback Method
hf	-593.67	kJ/mol	Joback Method
hfus	33.40	kJ/mol	Joback Method
hvap	57.73	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	4.814		Crippen Method
mcvol	217.130	ml/mol	McGowan Method
pc	1618.07	kPa	Joback Method
rinpol	1600.00		NIST Webbook
rinpol	1600.00		NIST Webbook
tb	614.99	K	Joback Method
tc	787.58	K	Joback Method
tf	326.21	K	Joback Method
vc	0.844	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.30	J/mol×K	614.99	Joback Method
cpg	590.65	J/mol×K	643.76	Joback Method
cpg	606.31	J/mol×K	672.52	Joback Method
cpg	621.30	J/mol×K	701.29	Joback Method
cpg	635.62	J/mol×K	730.05	Joback Method
cpg	649.27	J/mol×K	758.82	Joback Method
cpg	662.28	J/mol×K	787.58	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=U382905&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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