Ethylene glycol, O-acetyl-, O'-(2-acetyloxy)benzoate

Inchi: InChI=1S/C13H14O6/c1-9(14)17-7-8-18-13(16)11-5-3-4-6-12(11)19-10(2)15/h3-6H,7-8H

InchiKey: LCTKGQSNPMBONU-UHFFFAOYSA-N

Formula: C13H14O6

SMILES: CC(=O)OCCOC(=O)c1ccccc1OC(C)=O

Mol. weight [g/mol]: 266.25

Physical Properties

Property code	Value	Unit	Source
gf	-540.40	kJ/mol	Joback Method
hf	-820.99	kJ/mol	Joback Method
hfus	31.44	kJ/mol	Joback Method
hvap	74.94	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	1.332		Crippen Method
mcvol	192.590	ml/mol	McGowan Method
pc	2470.27	kPa	Joback Method
rinpol	1859.00		NIST Webbook
tb	757.37	K	Joback Method
tc	970.44	K	Joback Method
tf	491.69	K	Joback Method
vc	0.728	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	527.41	J/mol×K	757.37	Joback Method
cpg	578.41	J/mol×K	934.93	Joback Method
cpg	570.13	J/mol×K	899.42	Joback Method
cpg	560.88	J/mol×K	863.91	Joback Method
cpg	550.67	J/mol×K	828.39	Joback Method
cpg	539.51	J/mol×K	792.88	Joback Method
cpg	585.70	J/mol×K	970.44	Joback Method
dvisc	0.0001026	Pa×s	757.37	Joback Method
dvisc	0.0001273	Pa×s	713.09	Joback Method

dvisc	0.0001623	Pa×s	668.81	Joback Method
dvisc	0.0002143	Pa×s	624.53	Joback Method
dvisc	0.0002953	Pa×s	580.25	Joback Method
dvisc	0.0004289	Pa×s	535.97	Joback Method
dvisc	0.0006662	Pa×s	491.69	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=U374700&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