Ethylene glycol, O-acetyl-, O'-salicylate

Inchi: InChI=1S/C11H12O5/c1-8(12)15-6-7-16-11(14)9-4-2-3-5-10(9)13/h2-5,13H,6-7H2,1H3
InchiKey: MOWWOOBXTGKYPJ-UHFFFAOYSA-N
Formula: C11H12O5
SMILES: CC(=O)OCCOC(=O)c1ccccc1O
Mol. weight [g/mol]: 224.21

Physical Properties

Property code	Value	Unit	Source
gf	-468.31	kJ/mol	Joback Method
hf	-700.75	kJ/mol	Joback Method
hfus	29.64	kJ/mol	Joback Method
hvap	73.68	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	1.112		Crippen Method
mcvol	162.840	ml/mol	McGowan Method
pc	3452.08	kPa	Joback Method
rinpol	1665.00		NIST Webbook
rinpol	1665.00		NIST Webbook
tb	710.96	K	Joback Method
tc	933.88	K	Joback Method
tf	496.19	K	Joback Method
vc	0.557	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.05	J/mol×K	710.96	Joback Method
cpg	446.31	J/mol×K	748.11	Joback Method
cpg	456.84	J/mol×K	785.27	Joback Method
cpg	466.69	J/mol×K	822.42	Joback Method
cpg	475.90	J/mol×K	859.57	Joback Method
cpg	484.52	J/mol×K	896.72	Joback Method
cpg	492.60	J/mol×K	933.88	Joback Method
dvisc	0.0002370	Pa×s	496.19	Joback Method

dvisc	0.0001265	Pa×s	531.99	Joback Method
dvisc	0.0000731	Pa×s	567.78	Joback Method
dvisc	0.0000451	Pa×s	603.58	Joback Method
dvisc	0.0000293	Pa×s	639.37	Joback Method
dvisc	0.0000200	Pa×s	675.17	Joback Method
dvisc	0.0000142	Pa×s	710.96	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=U374696&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
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

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