Ethylene glycol, O-methyl-, O'-salicylate

Other names: 2-Methoxyethyl salicylate
Inchi: InChI=1S/C10H12O4/c1-13-6-7-14-10(12)8-4-2-3-5-9(8)11/h2-5,11H,6-7H2,1H3
InchiKey: DGLACCYWYOEWBS-UHFFFAOYSA-N
Formula: C10H12O4
SMILES: COCCOC(=O)c1ccccc1O
Mol. weight [g/mol]: 196.20

Physical Properties

Property code	Value	Unit	Source
gf	-347.81	kJ/mol	Joback Method
hf	-567.53	kJ/mol	Joback Method
hfus	25.46	kJ/mol	Joback Method
hvap	64.71	kJ/mol	Joback Method
log10ws	-1.19		Crippen Method
logp	1.195		Crippen Method
mcvol	147.180	ml/mol	McGowan Method
pc	3589.94	kPa	Joback Method
rinpol	1448.00		NIST Webbook
rinpol	1511.00		NIST Webbook
tb	634.21	K	Joback Method
tc	854.79	K	Joback Method
tf	434.99	K	Joback Method
vc	0.495	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.95	J/mol×K	634.21	Joback Method
cpg	385.86	J/mol×K	670.97	Joback Method
cpg	397.03	J/mol×K	707.74	Joback Method
cpg	407.52	J/mol×K	744.50	Joback Method
cpg	417.37	J/mol×K	781.26	Joback Method
cpg	426.63	J/mol×K	818.03	Joback Method
cpg	435.33	J/mol×K	854.79	Joback Method

dvisc	0.0005001	Pa×s	434.99	Joback Method
dvisc	0.0002485	Pa×s	468.19	Joback Method
dvisc	0.0001355	Pa×s	501.40	Joback Method
dvisc	0.0000797	Pa×s	534.60	Joback Method
dvisc	0.0000498	Pa×s	567.80	Joback Method
dvisc	0.0000328	Pa×s	601.01	Joback Method
dvisc	0.0000226	Pa×s	634.21	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=U374698&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