Evernic acid, pruiss

Other names: 4-[(4-methoxy-6-methylsalicyloyl)oxy]-6-methylsalicylic acid
Inchi: InChI=1S/C17H16O7/c1-8-5-11(7-12(18)14(8)16(20)21)24-17(22)15-9(2)4-10(23-3)6-13(
InchiKey: GODLCSLPZIBRMG-UHFFFAOYSA-N
Formula: C17H16O7
SMILES: COc1cc(C)c(C(=O)Oc2cc(C)c(C(=O)O)c(O)c2)c(O)c1
Mol. weight [g/mol]: 332.30
CAS: 537-09-7

Physical Properties

Property code	Value	Unit	Source
gf	-635.34	kJ/mol	Joback Method
hf	-963.48	kJ/mol	Joback Method
hfus	47.54	kJ/mol	Joback Method
hvap	121.65	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	2.641		Crippen Method
mcvol	235.360	ml/mol	McGowan Method
pc	3206.41	kPa	Joback Method
tb	1067.64	K	Joback Method
tc	1313.13	K	Joback Method
tf	812.85	K	Joback Method
vc	0.770	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	745.50	J/mol×K	1067.64	Joback Method
cpg	757.22	J/mol×K	1108.56	Joback Method
cpg	768.90	J/mol×K	1149.47	Joback Method
cpg	780.67	J/mol×K	1190.39	Joback Method
cpg	792.63	J/mol×K	1231.30	Joback Method
cpg	804.91	J/mol×K	1272.22	Joback Method
cpg	817.64	J/mol×K	1313.13	Joback Method
dvisc	0.0000001	Pa×s	812.85	Joback Method

dvisc	7.5302787e-08	Pa×s	855.32	Joback Method
dvisc	4.5137894e-08	Pa×s	897.78	Joback Method
dvisc	2.8336658e-08	Pa×s	940.24	Joback Method
dvisc	1.8519545e-08	Pa×s	982.71	Joback Method
dvisc	1.2537613e-08	Pa×s	1025.17	Joback Method
dvisc	8.7554061e-09	Pa×s	1067.64	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=C537097&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume