2-[(2-Hydroxybenzoyl)oxy]ethyl salicylate

Other names: ethylene disalicylate
Inchi: InChI=1S/C16H14O6/c17-13-7-3-1-5-11(13)15(19)21-9-10-22-16(20)12-6-2-4-8-14(12)18
InchiKey: FDXIVRQIMPXJGE-UHFFFAOYSA-N
Formula: C16H14O6
SMILES: O=C(OCCOC(=O)c1ccccc1O)c1ccccc1O
Mol. weight [g/mol]: 302.28
CAS: 20210-97-3

Physical Properties

Property code	Value	Unit	Source
gf	-468.42	kJ/mol	Joback Method
hf	-744.73	kJ/mol	Joback Method
hfus	42.42	kJ/mol	Joback Method
hvap	100.10	kJ/mol	Joback Method
log10ws	-2.70		Crippen Method
logp	2.112		Crippen Method
mcvol	215.400	ml/mol	McGowan Method
pc	3452.08	kPa	Joback Method
tb	932.66	K	Joback Method
tc	1180.86	K	Joback Method
tf	690.68	K	Joback Method
vc	0.696	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	648.77	J/mol×K	932.66	Joback Method
cpg	705.79	J/mol×K	1139.50	Joback Method
cpg	694.34	J/mol×K	1098.13	Joback Method
cpg	683.07	J/mol×K	1056.76	Joback Method
cpg	671.82	J/mol×K	1015.39	Joback Method
cpg	660.44	J/mol×K	974.03	Joback Method
cpg	717.57	J/mol×K	1180.86	Joback Method
dvisc	0.0000001	Pa×s	932.66	Joback Method

dvisc	0.0000002	Pa×s	892.33	Joback Method
dvisc	0.0000003	Pa×s	852.00	Joback Method
dvisc	0.0000005	Pa×s	811.67	Joback Method
dvisc	0.0000008	Pa×s	771.34	Joback Method
dvisc	0.0000014	Pa×s	731.01	Joback Method
dvisc	0.0000025	Pa×s	690.68	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20210973&Units=SI
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

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

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