Butyric acid,4-hydroxy-2-(o-hydroxyphenyl)-2-phenyl-,ga

Inchi: InChI=1S/C16H14O3/c17-14-9-5-4-8-13(14)16(10-11-19-15(16)18)12-6-2-1-3-7-12/h1-9,

InchiKey: QAKIRMAQWBIBDQ-UHFFFAOYSA-N

Formula: C16H14O3

SMILES: O=C1OCCC1(c1ccccc1)c1ccccc1O

Mol. weight [g/mol]: 254.28

CAS: 93011-89-3

Physical Properties

Property code	Value	Unit	Source
gf	-23.61	kJ/mol	Joback Method
hf	-271.80	kJ/mol	Joback Method
hfus	26.19	kJ/mol	Joback Method
hvap	76.64	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	2.625		Crippen Method
mcvol	191.230	ml/mol	McGowan Method
pc	3493.01	kPa	Joback Method
tb	809.75	K	Joback Method
tc	1096.12	K	Joback Method
tf	564.23	K	Joback Method
vc	0.648	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	570.19	J/mol×K	809.75	Joback Method
cpg	587.72	J/mol×K	857.48	Joback Method
cpg	604.89	J/mol×K	905.21	Joback Method
cpg	622.08	J/mol×K	952.94	Joback Method
cpg	639.68	J/mol×K	1000.66	Joback Method
cpg	658.05	J/mol×K	1048.39	Joback Method
cpg	677.59	J/mol×K	1096.12	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=C93011893&Units=SI

Legend

cpg:	Ideal gas heat capacity
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