Benzophenone, 2,4-dihydroxy-4'-phenyl-

Inchi: InChI=1S/C19H14O3/c20-16-10-11-17(18(21)12-16)19(22)15-8-6-14(7-9-15)13-4-2-1-3-5
InchiKey: UTLCXVVKPSSBSU-UHFFFAOYSA-N
Formula: C19H14O3
SMILES: O=C(c1ccc(-c2ccccc2)cc1)c1ccc(O)cc1O
Mol. weight [g/mol]: 290.31
CAS: 36130-57-1

Physical Properties

Property code	Value	Unit	Source
gf	-1.46	kJ/mol	Joback Method
hf	-204.57	kJ/mol	Joback Method
hfus	39.87	kJ/mol	Joback Method
hvap	98.15	kJ/mol	Joback Method
log10ws	-5.13		Crippen Method
logp	3.996		Crippen Method
mcvol	220.600	ml/mol	McGowan Method
pc	3448.03	kPa	Joback Method
tb	934.25	K	Joback Method
tc	1210.58	K	Joback Method
tf	669.04	K	Joback Method
vc	0.714	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	654.84	J/mol×K	934.25	Joback Method
cpg	668.82	J/mol×K	980.31	Joback Method
cpg	682.85	J/mol×K	1026.36	Joback Method
cpg	697.23	J/mol×K	1072.42	Joback Method
cpg	712.26	J/mol×K	1118.47	Joback Method
cpg	728.25	J/mol×K	1164.53	Joback Method
cpg	745.51	J/mol×K	1210.58	Joback Method
dvisc	0.0000042	Pa×s	669.04	Joback Method
dvisc	0.0000021	Pa×s	713.24	Joback Method

dvisc	0.0000012	Pa×s	757.44	Joback Method
dvisc	0.0000007	Pa×s	801.64	Joback Method
dvisc	0.0000004	Pa×s	845.85	Joback Method
dvisc	0.0000003	Pa×s	890.05	Joback Method
dvisc	0.0000002	Pa×s	934.25	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=C36130571&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