Benzophenone, 5-heptyl-2,4-dihydroxy-

Inchi: InChI=1S/C20H24O3/c1-2-3-4-5-7-12-16-13-17(19(22)14-18(16)21)20(23)15-10-8-6-9-11
InchiKey: LHYZXFSSNRZNFV-UHFFFAOYSA-N
Formula: C20H24O3
SMILES: CCCCCCCc1cc(C(=O)c2ccccc2)c(O)cc1O
Mol. weight [g/mol]: 312.40
CAS: 116495-91-1

Physical Properties

Property code	Value	Unit	Source
gf	-105.45	kJ/mol	Joback Method
hf	-461.74	kJ/mol	Joback Method
hfus	48.41	kJ/mol	Joback Method
hvap	98.10	kJ/mol	Joback Method
log10ws	-5.42		Crippen Method
logp	4.842		Crippen Method
mcvol	258.450	ml/mol	McGowan Method
pc	2204.15	kPa	Joback Method
tb	930.45	K	Joback Method
tc	1167.18	K	Joback Method
tf	653.89	K	Joback Method
vc	0.877	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	817.46	J/mol×K	930.45	Joback Method
cpg	895.50	J/mol×K	1127.72	Joback Method
cpg	879.57	J/mol×K	1088.27	Joback Method
cpg	863.99	J/mol×K	1048.81	Joback Method
cpg	848.57	J/mol×K	1009.36	Joback Method
cpg	833.12	J/mol×K	969.90	Joback Method
cpg	911.97	J/mol×K	1167.18	Joback Method
dvisc	0.0000002	Pa×s	930.45	Joback Method
dvisc	0.0000002	Pa×s	884.36	Joback Method

dvisc	0.0000004	Pa×s	838.26	Joback Method
dvisc	0.0000006	Pa×s	792.17	Joback Method
dvisc	0.0000012	Pa×s	746.08	Joback Method
dvisc	0.0000022	Pa×s	699.98	Joback Method
dvisc	0.0000047	Pa×s	653.89	Joback Method

Sources

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=C116495911&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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