

4,4'-(1-P-hydroxyphenyl-2-methylethylene)diphen

Inchi:	InChI=1S/C21H20O3/c1-14(15-2-8-18(22)9-3-15)21(16-4-10-19(23)11-5-16)17-6-12-20(2
InchiKey:	GVWADIFPOCZIBX-UHFFFAOYSA-N
Formula:	C21H20O3
SMILES:	CC(c1ccc(O)cc1)C(c1ccc(O)cc1)c1ccc(O)cc1
Mol. weight [g/mol]:	320.38
CAS:	88900-03-2

Physical Properties

Property code	Value	Unit	Source
gf	-5.57	kJ/mol	Joback Method
hf	-309.67	kJ/mol	Joback Method
hfus	42.57	kJ/mol	Joback Method
hvap	107.43	kJ/mol	Joback Method
log10ws	-4.60		Crippen Method
logp	4.739		Crippen Method
mcvol	253.080	ml/mol	McGowan Method
pc	3163.27	kPa	Joback Method
tb	1000.90	K	Joback Method
tc	1275.65	K	Joback Method
tf	710.85	K	Joback Method
vc	0.773	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	815.86	J/molxK	1000.90	Joback Method
cpg	924.84	J/molxK	1229.86	Joback Method
cpg	899.28	J/molxK	1184.06	Joback Method
cpg	876.01	J/molxK	1138.27	Joback Method
cpg	854.63	J/molxK	1092.48	Joback Method
cpg	834.72	J/molxK	1046.69	Joback Method
cpg	953.10	J/molxK	1275.65	Joback Method
dvisc	2.8429574e-09	Paxs	1000.90	Joback Method
dvisc	4.7208314e-09	Paxs	952.56	Joback Method

dvisc	8.2759271e-09	Paxs	904.22	Joback Method
dvisc	1.5458072e-08	Paxs	855.88	Joback Method
dvisc	3.1115764e-08	Paxs	807.53	Joback Method
dvisc	6.8469610e-08	Paxs	759.19	Joback Method
dvisc	0.0000002	Paxs	710.85	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C88900032&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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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