Phenol, 4,4'-methylenebis-

Other names:	Phenol, 4,4'-methylenedi-
	p-(p-Hydroxybenzyl)phenol
	Bis(p-hydroxyphenyl)methane
	Bis(4-hydroxyphenyl)methane
	HDM
	4,4'-Dihydroxydiphenylmethane
	4,4'-Methylenebis[phenol]
	4,4'-Methylenediphenol
	p,p'-Methylenediphenol
	p,p'-Bis(hydroxyphenyl)methane
	4,4-Dihydroxydiphenylmethane
	Bisphenol F
	NSC 401136
	4,4'-Bis(hydroxyphenyl)methane
Inchi:	InChI=1S/C13H12O2/c14-12-5-1-10(2-6-12)9-11-3-7-13(15)8-4-11/h1-8,14-15H,9H2
InchiKey:	PXKLMJQFEQBVLD-UHFFFAOYSA-N
Formula:	C13H12O2
SMILES:	Oc1ccc(Cc2ccc(O)cc2)cc1
Mol. weight [g/mol]:	200.23
CAS:	620-92-8

Physical Properties

Property code	Value	Unit	Source
gf	-25.84	kJ/mol	Joback Method
hf	-193.21	kJ/mol	Joback Method
hfus	29.07	kJ/mol	Joback Method
hvap	75.11	kJ/mol	Joback Method
log10ws	-2.67		Crippen Method
logp	2.689		Crippen Method
mcvol	158.250	ml/mol	McGowan Method
pc	4409.10	kPa	Joback Method
rinpol	2065.00		NIST Webbook
tb	711.44	K	Joback Method
tc	973.14	K	Joback Method
tf	512.55	K	Joback Method
vc	0.479	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	423.36	J/mol×K	711.44	Joback Method
cpg	480.26	J/mol×K	929.53	Joback Method
cpg	469.60	J/mol×K	885.91	Joback Method
cpg	458.81	J/mol×K	842.29	Joback Method
cpg	447.66	J/mol×K	798.67	Joback Method
cpg	435.92	J/mol×K	755.06	Joback Method
cpg	491.03	J/mol×K	973.14	Joback Method
dvisc	0.0000015	Pa×s	711.44	Joback Method
dvisc	0.0000024	Pa×s	678.29	Joback Method
dvisc	0.0000040	Pa×s	645.14	Joback Method
dvisc	0.0000070	Pa×s	612.00	Joback Method
dvisc	0.0000130	Pa×s	578.85	Joback Method
dvisc	0.0000261	Pa×s	545.70	Joback Method
dvisc	0.0000572	Pa×s	512.55	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C620928&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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume