Phenol, 2-[(4-hydroxyphenyl)methyl]-

Other names:	Phenol, 2,4'-methylenedi-
	(2-Hydroxyphenyl)(4-hydroxyphenyl)methane
	o-(p-Hydroxybenzyl)phenol
	2,4'-Dihydroxydiphenylmethane
	2,4'-Methylenebis(phenol)
	2,4'-Methylenediphenol
	o-[(4-hydroxyphenyl)methyl]phenol
Inchi:	InChI=1S/C13H12O2/c14-12-7-5-10(6-8-12)9-11-3-1-2-4-13(11)15/h1-8,14-15H,9H2
InchiKey:	LVLNPXCISNPHLE-UHFFFAOYSA-N
Formula:	C13H12O2
SMILES:	Oc1ccc(Cc2ccccc2O)cc1
Mol. weight [g/mol]:	200.23
CAS:	2467-03-0

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
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	435.92	J/mol×K	755.06	Joback Method

cpg	447.66	J/mol×K	798.67	Joback Method
cpg	458.81	J/mol×K	842.29	Joback Method
cpg	469.60	J/mol×K	885.91	Joback Method
cpg	480.26	J/mol×K	929.53	Joback Method
cpg	491.03	J/mol×K	973.14	Joback Method
dvisc	0.0000572	Pa×s	512.55	Joback Method
dvisc	0.0000261	Pa×s	545.70	Joback Method
dvisc	0.0000130	Pa×s	578.85	Joback Method
dvisc	0.0000070	Pa×s	612.00	Joback Method
dvisc	0.0000040	Pa×s	645.14	Joback Method
dvisc	0.0000024	Pa×s	678.29	Joback Method
dvisc	0.0000015	Pa×s	711.44	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2467030&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
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