Benzenemethanol, 4-hydroxy-

Other names:	Benzyl alcohol, p-hydroxy-
	«alpha»-Hydroxy-p-cresol
	p-(Hydroxymethyl)phenol
	p-Hydroxybenzyl alcohol
	p-Methylolphenol
	4-(Hydroxymethyl)phenol
	4-Hydroxybenzyl alcohol
	4-Methylolphenol
	Gastrodigenin
	4-Hydroxybenzenemethanol
Inchi:	InChI=1S/C7H8O2/c8-5-6-1-3-7(9)4-2-6/h1-4,8-9H,5H2
InchiKey:	BVJSUAQZOZWCKN-UHFFFAOYSA-N
Formula:	C7H8O2
SMILES:	OCc1ccc(O)cc1
Mol. weight [g/mol]:	124.14
CAS:	623-05-2

Physical Properties

Property code	Value	Unit	Source
gf	-170.97	kJ/mol	Joback Method
hf	-280.82	kJ/mol	Joback Method
hfus	17.80	kJ/mol	Joback Method
hvap	63.15	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	0.884		Crippen Method
mcvol	97.470	ml/mol	McGowan Method
pc	5756.64	kPa	Joback Method
rinpol	1426.00		NIST Webbook
rinpol	1426.00		NIST Webbook
rinpol	1357.70		NIST Webbook
tb	559.04	K	Joback Method
tc	771.80	K	Joback Method
tf	367.61	K	Joback Method
vc	0.304	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	225.28	J/mol×K	559.04	Joback Method
cpg	262.29	J/mol×K	736.34	Joback Method
cpg	255.87	J/mol×K	700.88	Joback Method
cpg	249.02	J/mol×K	665.42	Joback Method
cpg	241.68	J/mol×K	629.96	Joback Method
cpg	233.79	J/mol×K	594.50	Joback Method
cpg	268.35	J/mol×K	771.80	Joback Method
dvisc	0.0000257	Pa×s	559.04	Joback Method
dvisc	0.0000453	Pa×s	527.13	Joback Method
dvisc	0.0000858	Pa×s	495.23	Joback Method
dvisc	0.0001778	Pa×s	463.32	Joback Method
dvisc	0.0004100	Pa×s	431.42	Joback Method
dvisc	0.0010805	Pa×s	399.51	Joback Method
dvisc	0.0033694	Pa×s	367.61	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C623052&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume