

Benzenemethanol, 3-hydroxy-

Other names:	Benzyl alcohol, m-hydroxy- m-Hydroxybenzyl alcohol 3-Hydroxybenzyl alcohol KSD 2405 3-Hydroxybenzenemethanol 3-(Hydroxymethyl)-phenol
Inchi:	InChI=1S/C7H8O2/c8-5-6-2-1-3-7(9)4-6/h1-4,8-9H,5H2
InchiKey:	OKVJCVWVFRATSG-UHFFFAOYSA-N
Formula:	C7H8O2
SMILES:	OCc1cccc(O)c1
Mol. weight [g/mol]:	124.14
CAS:	620-24-6

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
ripol	2257.00		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	233.79	J/mol×K	594.50	Joback Method

cpg	241.68	J/mol×K	629.96	Joback Method
cpg	249.02	J/mol×K	665.42	Joback Method
cpg	255.87	J/mol×K	700.88	Joback Method
cpg	262.29	J/mol×K	736.34	Joback Method
cpg	268.35	J/mol×K	771.80	Joback Method
dvisc	0.0033694	Pa×s	367.61	Joback Method
dvisc	0.0010805	Pa×s	399.51	Joback Method
dvisc	0.0004100	Pa×s	431.42	Joback Method
dvisc	0.0001778	Pa×s	463.32	Joback Method
dvisc	0.0000858	Pa×s	495.23	Joback Method
dvisc	0.0000453	Pa×s	527.13	Joback Method
dvisc	0.0000257	Pa×s	559.04	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C620246&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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