3-Hydroxy-4-methoxybenzyl alcohol

Other names:	4-Methoxy-3-hydroxy benzyl alcohol
	Benzenemethanol, 3-hydroxy-4-methoxy-
Inchi:	InChI=1S/C8H10O3/c1-11-8-3-2-6(5-9)4-7(8)10/h2-4,9-10H,5H2,1H3
InchiKey:	WHKRHBLAJFYZKF-UHFFFAOYSA-N
Formula:	C8H10O3
SMILES:	COc1ccc(CO)cc1O
Mol. weight [g/mol]:	154.16
CAS:	4383-06-6

Physical Properties

Property code	Value	Unit	Source
gf	-277.18	kJ/mol	Joback Method
hf	-445.15	kJ/mol	Joback Method
hfus	21.19	kJ/mol	Joback Method
hvap	68.44	kJ/mol	Joback Method
log10ws	-1.28		Crippen Method
logp	0.893		Crippen Method
mcvol	117.430	ml/mol	McGowan Method
pc	4782.59	kPa	Joback Method
rinpol	1477.90		NIST Webbook
tb	609.32	K	Joback Method
tc	817.37	K	Joback Method
tf	413.63	K	Joback Method
vc	0.379	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.75	J/mol×K	609.32	Joback Method
cpg	330.61	J/mol×K	782.70	Joback Method
cpg	323.31	J/mol×K	748.02	Joback Method
cpg	315.62	J/mol×K	713.35	Joback Method
cpg	307.49	J/mol×K	678.67	Joback Method
cpg	298.88	J/mol×K	644.00	Joback Method

cpg	337.55	J/mol×K	817.37	Joback Method
dvisc	0.0000118	Pa×s	609.32	Joback Method
dvisc	0.0000195	Pa×s	576.70	Joback Method
dvisc	0.0000342	Pa×s	544.09	Joback Method
dvisc	0.0000644	Pa×s	511.47	Joback Method
dvisc	0.0001322	Pa×s	478.86	Joback Method
dvisc	0.0003013	Pa×s	446.25	Joback Method
dvisc	0.0007825	Pa×s	413.63	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4383066&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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