4-hydroxy-«alpha»-methylbenzyl alcohol

Other names: 4-(1-Hydroxyethyl)phenol
Inchi: InChI=1S/C8H10O2/c1-6(9)7-2-4-8(10)5-3-7/h2-6,9-10H,1H3
InchiKey: PMRFBLQVGJNGLU-UHFFFAOYSA-N
Formula: C8H10O2
SMILES: CC(O)c1ccc(O)cc1
Mol. weight [g/mol]: 138.16
CAS: 2380-91-8

Physical Properties

Property code	Value	Unit	Source
gf	-164.99	kJ/mol	Joback Method
hf	-306.74	kJ/mol	Joback Method
hfus	16.87	kJ/mol	Joback Method
hvap	64.98	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.446		Crippen Method
mcvol	111.560	ml/mol	McGowan Method
pc	5058.59	kPa	Joback Method
rinpol	1373.60		NIST Webbook
rinpol	1373.60		NIST Webbook
tb	581.48	K	Joback Method
tc	795.19	K	Joback Method
tf	363.88	K	Joback Method
vc	0.354	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.60	J/mol×K	581.48	Joback Method
cpg	312.12	J/mol×K	759.57	Joback Method
cpg	304.70	J/mol×K	723.95	Joback Method
cpg	296.80	J/mol×K	688.33	Joback Method
cpg	288.36	J/mol×K	652.72	Joback Method
cpg	279.32	J/mol×K	617.10	Joback Method

cpg	319.15	J/mol×K	795.19	Joback Method
dvisc	0.0000179	Pa×s	581.48	Joback Method
dvisc	0.0000331	Pa×s	545.21	Joback Method
dvisc	0.0000667	Pa×s	508.95	Joback Method
dvisc	0.0001499	Pa×s	472.68	Joback Method
dvisc	0.0003852	Pa×s	436.41	Joback Method
dvisc	0.0011742	Pa×s	400.15	Joback Method
dvisc	0.0044704	Pa×s	363.88	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2380918&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

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