Benzaldehyde, 2-hydroxy, 5-ethyl

Inchi: InChI=1S/C9H10O2/c1-2-7-3-4-9(11)8(5-7)6-10/h3-6,11H,2H2,1H3
InchiKey: XSTCLZHMZASDDK-UHFFFAOYSA-N
Formula: C9H10O2
SMILES: CCc1ccc(O)c(C=O)c1
Mol. weight [g/mol]: 150.17

Physical Properties

Property code	Value	Unit	Source
gf	-126.46	kJ/mol	Joback Method
hf	-266.92	kJ/mol	Joback Method
hfus	20.79	kJ/mol	Joback Method
hvap	58.30	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	1.767		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	4200.18	kPa	Joback Method
rinpol	1496.00		NIST Webbook
tb	566.26	K	Joback Method
tc	792.70	K	Joback Method
tf	383.85	K	Joback Method
vc	0.414	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.11	J/mol×K	566.26	Joback Method
cpg	292.99	J/mol×K	604.00	Joback Method
cpg	303.11	J/mol×K	641.74	Joback Method
cpg	312.54	J/mol×K	679.48	Joback Method
cpg	321.36	J/mol×K	717.22	Joback Method
cpg	329.64	J/mol×K	754.96	Joback Method
cpg	337.45	J/mol×K	792.70	Joback Method
dvisc	0.0015230	Pa×s	383.85	Joback Method
dvisc	0.0007301	Pa×s	414.25	Joback Method

dvisc	0.0003870	Pa×s	444.65	Joback Method
dvisc	0.0002225	Pa×s	475.06	Joback Method
dvisc	0.0001368	Pa×s	505.46	Joback Method
dvisc	0.0000888	Pa×s	535.86	Joback Method
dvisc	0.0000604	Pa×s	566.26	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R256878&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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