Benzenemethanol, «alpha»-ethyl-4-methoxy-

Other names:	Benzyl alcohol, «alpha»-ethyl-p-methoxy- 1-(4-Methoxyphenyl)-1-propanol Benzenemethanol, 1-ethyl-4-methoxy «alpha»-ethyl-p-methoxybenzyl alcohol
Inchi:	InChI=1S/C10H14O2/c1-3-10(11)8-4-6-9(12-2)7-5-8/h4-7,10-11H,3H2,1-2H3
InchiKey:	RELLLNVFFUWXHI-UHFFFAOYSA-N
Formula:	C10H14O2
SMILES:	CCC(O)c1ccc(OC)cc1
Mol. weight [g/mol]:	166.22
CAS:	5349-60-0

Physical Properties

Property code	Value	Unit	Source
gf	-108.16	kJ/mol	Joback Method
hf	-314.40	kJ/mol	Joback Method
hfus	17.06	kJ/mol	Joback Method
hvap	59.49	kJ/mol	Joback Method
log10ws	-2.53		Crippen Method
logp	2.139		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	3159.72	kPa	Joback Method
rinpol	1405.90		NIST Webbook
rinpol	1405.90		NIST Webbook
tb	574.02	K	Joback Method
tc	769.80	K	Joback Method
tf	309.45	K	Joback Method
vc	0.518	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.81	J/mol×K	574.02	Joback Method
cpg	348.12	J/mol×K	606.65	Joback Method
cpg	359.82	J/mol×K	639.28	Joback Method

cpg	370.90	J/mol×K	671.91	Joback Method
cpg	381.39	J/mol×K	704.54	Joback Method
cpg	391.29	J/mol×K	737.17	Joback Method
cpg	400.62	J/mol×K	769.80	Joback Method
dvisc	0.0074195	Pa×s	309.45	Joback Method
dvisc	0.0021152	Pa×s	353.54	Joback Method
dvisc	0.0007965	Pa×s	397.64	Joback Method
dvisc	0.0003645	Pa×s	441.74	Joback Method
dvisc	0.0001923	Pa×s	485.83	Joback Method
dvisc	0.0001128	Pa×s	529.92	Joback Method
dvisc	0.0000718	Pa×s	574.02	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=C5349600&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