3-Ethyl-5-methylbenzyl alcohol

Inchi: InChI=1S/C10H14O/c1-3-9-4-8(2)5-10(6-9)7-11/h4-6,11H,3,7H2,1-2H3
InchiKey: VITSERFATIPMIB-UHFFFAOYSA-N
Formula: C10H14O
SMILES: CCc1cc(C)cc(CO)c1
Mol. weight [g/mol]: 150.22

Physical Properties

Property code	Value	Unit	Source
gf	-10.35	kJ/mol	Joback Method
hf	-188.37	kJ/mol	Joback Method
hfus	19.01	kJ/mol	Joback Method
hvap	58.13	kJ/mol	Joback Method
log10ws	-2.89		Crippen Method
logp	2.050		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	3138.51	kPa	Joback Method
rinpol	1219.00		NIST Webbook
rinpol	1219.00		NIST Webbook
tb	557.02	K	Joback Method
tc	751.47	K	Joback Method
tf	314.74	K	Joback Method
vc	0.506	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.00	J/mol×K	557.02	Joback Method
cpg	364.99	J/mol×K	719.07	Joback Method
cpg	355.31	J/mol×K	686.66	Joback Method
cpg	345.08	J/mol×K	654.25	Joback Method
cpg	334.31	J/mol×K	621.84	Joback Method
cpg	322.95	J/mol×K	589.43	Joback Method
cpg	374.16	J/mol×K	751.47	Joback Method
dvisc	0.0000969	Pa×s	557.02	Joback Method

dvisc	0.0001456	Pa×s	516.64	Joback Method
dvisc	0.0002344	Pa×s	476.26	Joback Method
dvisc	0.0004122	Pa×s	435.88	Joback Method
dvisc	0.0008136	Pa×s	395.50	Joback Method
dvisc	0.0018743	Pa×s	355.12	Joback Method
dvisc	0.0053487	Pa×s	314.74	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=R553496&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