Benzeneethanol, «alpha»-methyl-

Other names:	«alpha»-Methylphenethyl alcohol
	Benzyl methyl carbinol
	Phenethyl alcohol, «alpha»-methyl-
	1-Phenyl-2-propanol
	2-Hydroxy-1-phenylpropane
	2-Propanol, 1-phenyl-
	«alpha»-Methylbenzeneethanol
	Benzenethanol, «alpha»-methyl-
	NSC 53553
	1-phenylpropan-2-ol
Inchi:	InChI=1S/C9H12O/c1-8(10)7-9-5-3-2-4-6-9/h2-6,8,10H,7H2,1H3
InchiKey:	WYTRYIUQUDTGSX-UHFFFAOYSA-N
Formula:	C9H12O
SMILES:	CC(O)Cc1ccccc1
Mol. weight [g/mol]:	136.19
CAS:	698-87-3

Physical Properties

Property code	Value	Unit	Source
gf	-1.95	kJ/mol	Joback Method
hf	-150.07	kJ/mol	Joback Method
hfus	13.67	kJ/mol	Joback Method
hvap	54.19	kJ/mol	Joback Method
log10ws	-2.07		Crippen Method
logp	1.610		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3668.65	kPa	Joback Method
rinpol	1212.00		NIST Webbook
rinpol	1212.00		NIST Webbook
ripol	1771.00		NIST Webbook
ripol	1779.00		NIST Webbook
ripol	1771.00		NIST Webbook
ripol	1773.00		NIST Webbook
ripol	1778.00		NIST Webbook
tb	523.74	K	Joback Method
tc	722.83	K	Joback Method
tf	263.43	K	Joback Method

vc	0.445	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	267.01	J/mol×K	523.74	Joback Method
cpg	278.99	J/mol×K	556.92	Joback Method
cpg	290.28	J/mol×K	590.10	Joback Method
cpg	300.91	J/mol×K	623.28	Joback Method
cpg	310.91	J/mol×K	656.46	Joback Method
cpg	320.31	J/mol×K	689.65	Joback Method
cpg	329.13	J/mol×K	722.83	Joback Method
dvisc	0.0307952	Pa×s	263.43	Joback Method
dvisc	0.0063252	Pa×s	306.81	Joback Method
dvisc	0.0019230	Pa×s	350.20	Joback Method
dvisc	0.0007602	Pa×s	393.59	Joback Method
dvisc	0.0003613	Pa×s	436.97	Joback Method
dvisc	0.0001964	Pa×s	480.36	Joback Method
dvisc	0.0001181	Pa×s	523.74	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C698873&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume