Benzenemethanol, «alpha»-ethyl-

Other names:	Benzyl alcohol, «alpha»-ethyl-
	«alpha»-Ethylbenzyl alcohol
	«alpha»-Hydroxypropylbenzene
	«omega»-Ethylbenzyl alcohol
	Bilergon
	Carbicol
	Choleda
	Ejibil
	Epatoxfen
	Ethyl phenyl carbinol
	Felicur
	Felitrope
	Fenicol
	Fepar
	Gallenperlen
	Livonal
	Phenicol
	Phenychol
	Phenycholon
	Phenyl ethyl carbinol
	Phenylchol
	SH 261
	Unichol
	1-Phenyl-1-Hydroxypropane
	1-Phenyl-1-propanol
	1-Phenylpropyl alcohol
	1-Propanol, 1-phenyl-
	«alpha»-Ethylbenzenemethanol
	Phenylaethylcarbinol
	Phenylcholon
	1-Phenylpropanol
	1-Phenyl-n-propanol
	1-Phenylpropan-1-ol
	Phenyl-1-propan-1-ol
	NSC 25504
Inchi:	InChI=1S/C9H12O/c1-2-9(10)8-6-4-3-5-7-8/h3-7,9-10H,2H2,1H3
InchiKey:	DYUQAZSOFZSPHD-UHFFFAOYSA-N
Formula:	C9H12O
SMILES:	CCC(O)c1ccccc1
Mol. weight [g/mol]:	136.19

CAS: 93-54-9

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	-2.42		Crippen Method
logp	2.130		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3668.65	kPa	Joback Method
ripol	1908.00		NIST Webbook
ripol	1908.00		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

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	376.20	K	1.90	NIST Webbook

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=C93549&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume