Fenipentol

Other names:	Benzenemethanol, «alpha»-butyl-
	Benzyl alcohol, «alpha»-butyl-
	«alpha»-Butylbenzenemethanol
	«alpha»-Butylbenzyl alcohol
	Pancoral
	Phenylbutylcarbinol
	1-Pentanol, 1-phenyl-
	1-Phenyl-1-pentanol
	1-Phenylpentanol
	Suiclisin
	1-Phenyl-1-hydroxypentane
	1-Hydroxy-1-phenylpentane
	PC 1
	PH BC
	1-Phenyl-1-hydroxy-n-pentane
	NSC 8478
Inchi:	InChI=1S/C11H16O/c1-2-3-9-11(12)10-7-5-4-6-8-10/h4-8,11-12H,2-3,9H2,1H3
InchiKey:	OVGORFFCBUIFIA-UHFFFAOYSA-N
Formula:	C11H16O
SMILES:	CCCCC(O)c1ccccc1
Mol. weight [g/mol]:	164.24
CAS:	583-03-9

Physical Properties

Property code	Value	Unit	Source
gf	14.89	kJ/mol	Joback Method
hf	-191.35	kJ/mol	Joback Method
hfus	18.85	kJ/mol	Joback Method
hvap	58.65	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	2.910		Crippen Method
mcvol	147.960	ml/mol	McGowan Method
pc	2944.08	kPa	Joback Method
rinpol	1321.00		NIST Webbook
tb	569.50	K	Joback Method
tc	763.30	K	Joback Method
tf	285.97	K	Joback Method

vc	0.556	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	358.85	J/mol×K	569.50	Joback Method
cpg	372.41	J/mol×K	601.80	Joback Method
cpg	385.22	J/mol×K	634.10	Joback Method
cpg	397.31	J/mol×K	666.40	Joback Method
cpg	408.71	J/mol×K	698.70	Joback Method
cpg	419.45	J/mol×K	731.00	Joback Method
cpg	429.57	J/mol×K	763.30	Joback Method
dvisc	0.0199438	Pa×s	285.97	Joback Method
dvisc	0.0042092	Pa×s	333.23	Joback Method
dvisc	0.0013074	Pa×s	380.48	Joback Method
dvisc	0.0005258	Pa×s	427.74	Joback Method
dvisc	0.0002535	Pa×s	474.99	Joback Method
dvisc	0.0001394	Pa×s	522.25	Joback Method
dvisc	0.0000847	Pa×s	569.50	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C583039&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume