

3-Phenyl-3-pentanol

Other names:	Benzenemethanol, «alpha», «alpha»-diethyl-
Inchi:	InChI=1S/C11H16O/c1-3-11(12,4-2)10-8-6-5-7-9-10/h5-9,12H,3-4H2,1-2H3
InchiKey:	XXCPOPNECJIJH-UHFFFAOYSA-N
Formula:	C11H16O
SMILES:	CCC(O)(CC)c1ccccc1
Mol. weight [g/mol]:	164.24
CAS:	1565-71-5

Physical Properties

Property code	Value	Unit	Source
gf	20.17	kJ/mol	Joback Method
hf	-194.82	kJ/mol	Joback Method
hfus	14.96	kJ/mol	Joback Method
hvap	57.74	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	2.694		Crippen Method
mcvol	147.960	ml/mol	McGowan Method
pc	2979.54	kPa	Joback Method
tb	566.71	K	Joback Method
tc	767.71	K	Joback Method
tf	303.39	K	Joback Method
vc	0.551	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	361.84	J/molxK	566.71	Joback Method
cpg	423.51	J/molxK	734.21	Joback Method
cpg	412.76	J/molxK	700.71	Joback Method
cpg	401.27	J/molxK	667.21	Joback Method
cpg	388.99	J/molxK	633.71	Joback Method
cpg	375.86	J/molxK	600.21	Joback Method
cpg	433.56	J/molxK	767.71	Joback Method
dvisc	0.0000834	Paxs	566.71	Joback Method

dvisc	0.0001368	Paxs	522.82	Joback Method
dvisc	0.0002457	Paxs	478.94	Joback Method
dvisc	0.0004965	Paxs	435.05	Joback Method
dvisc	0.0011748	Paxs	391.16	Joback Method
dvisc	0.0034560	Paxs	347.28	Joback Method
dvisc	0.0138910	Paxs	303.39	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1565715&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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