Butanamide, 3-methyl-N-phenyl-

Other names:	Isovaleranilide
	Bitanamide, 3-methyl-N-phenyl
	3-Methyl-N-phenylbutanamide
Inchi:	InChI=1S/C11H15NO/c1-9(2)8-11(13)12-10-6-4-3-5-7-10/h3-7,9H,8H2,1-2H3,(H,12,13)
InchiKey:	WQRPHHIOZYGAMQ-UHFFFAOYSA-N
Formula:	C11H15NO
SMILES:	CC(C)CC(O)=Nc1ccccc1
Mol. weight [g/mol]:	177.24
CAS:	2364-50-3

Physical Properties

Property code	Value	Unit	Source
hf	-118.92	kJ/mol	Joback Method
hvap	62.04	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	3.321		Crippen Method
mcvol	153.640	ml/mol	McGowan Method
pc	2648.83	kPa	Joback Method
rinpol	1571.00		NIST Webbook
tb	646.06	K	Joback Method
tc	857.87	K	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=C2364503&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hf:	Enthalpy of formation 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