Acetamide, N-(2-phenylethyl)-

Other names:	Acetamide, N-phenethyl- N-(2-Phenylethyl)acetamide N-Phenethylacetamide N-Acetylphenethylamine (2-Phenethyl)acetamide N-(2-phenethyl)-acetamide N-(2'-phenylethyl)acetamide N-Acetylphenetylamine
Inchi:	InChI=1S/C10H13NO/c1-9(12)11-8-7-10-5-3-2-4-6-10/h2-6H,7-8H2,1H3,(H,11,12)
InchiKey:	MODKMHXGCGKTLE-UHFFFAOYSA-N
Formula:	C10H13NO
SMILES:	CC(O)=NCCc1ccccc1
Mol. weight [g/mol]:	163.22
CAS:	877-95-2

Physical Properties

Property code	Value	Unit	Source
hf	-93.00	kJ/mol	Joback Method
hvap	60.20	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	2.206		Crippen Method
mcvol	139.550	ml/mol	McGowan Method
pc	2906.11	kPa	Joback Method
rinpol	1511.70		NIST Webbook
rinpol	1524.00		NIST Webbook
rinpol	1524.00		NIST Webbook
rinpol	1513.00		NIST Webbook
rinpol	1511.70		NIST Webbook
rinpol	1524.00		NIST Webbook
rinpol	1513.00		NIST Webbook
ripol	2585.00		NIST Webbook
ripol	2590.00		NIST Webbook
ripol	2585.00		NIST Webbook
ripol	2580.00		NIST Webbook
ripol	2590.00		NIST Webbook
ripol	2590.00		NIST Webbook
tb	623.62	K	Joback Method

tc	834.71	K	Joback Method

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=C877952&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature