N-(Phenethyl)phenylacetamide

Inchi: InChI=1S/C16H17NO/c18-16(13-15-9-5-2-6-10-15)17-12-11-14-7-3-1-4-8-14/h1-10H,11-
InchiKey: SERBNUYNEAQHNJ-UHFFFAOYSA-N
Formula: C16H17NO
SMILES: OC(Cc1ccccc1)=NCCc1ccccc1
Mol. weight [g/mol]: 239.31
CAS: 5460-60-6

Physical Properties

Property code	Value	Unit	Source
hf	19.69	kJ/mol	Joback Method
hvap	75.84	kJ/mol	Joback Method
log10ws	-3.71		Crippen Method
logp	3.428		Crippen Method
mcvol	200.330	ml/mol	McGowan Method
pc	2267.57	kPa	Joback Method
tb	787.58	K	Joback Method
tc	1015.93	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=C5460606&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature