Benzeneacetamide, N-(phenylmethyl)-

Other names: Phenylacetylamino, N-benzyl-
N-Benzyl-2-phenylacetamide
Inchi: InChI=1S/C15H15NO/c17-15(11-13-7-3-1-4-8-13)16-12-14-9-5-2-6-10-14/h1-10H,11-12H
InchiKey: CPKRCGUDZGKAPJ-UHFFFAOYSA-N
Formula: C15H15NO
SMILES: OC(Cc1ccccc1)=NCc1ccccc1
Mol. weight [g/mol]: 225.29
CAS: 7500-45-0

Physical Properties

Property code	Value	Unit	Source
hf	40.33	kJ/mol	Joback Method
hvap	73.61	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	3.386		Crippen Method
mcvol	186.240	ml/mol	McGowan Method
pc	2490.03	kPa	Joback Method
rinpol	2059.80		NIST Webbook
rinpol	2059.80		NIST Webbook
tb	764.70	K	Joback Method
tc	996.79	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=C7500450&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature