Phenylacetamide, N-decyl-

Inchi: InChI=1S/C18H29NO/c1-2-3-4-5-6-7-8-12-15-19-18(20)16-17-13-10-9-11-14-17/h9-11,13
InchiKey: JAZIQMDUHMJQLX-UHFFFAOYSA-N
Formula: C18H29NO
SMILES: CCCCCCCCCCN=C(O)Cc1ccccc1
Mol. weight [g/mol]: 275.43

Physical Properties

Property code	Value	Unit	Source
hf	-258.12	kJ/mol	Joback Method
hvap	78.01	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	5.326		Crippen Method
mcvol	252.270	ml/mol	McGowan Method
pc	1453.46	kPa	Joback Method
rinpol	2322.00		NIST Webbook
rinpol	2322.00		NIST Webbook
tb	806.66	K	Joback Method
tc	1003.21	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U407231&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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