Propanamide, 3-phenyl-N-decyl-

Inchi: InChI=1S/C19H31NO/c1-2-3-4-5-6-7-8-12-17-20-19(21)16-15-18-13-10-9-11-14-18/h9-11
InchiKey: XPKLXQVHRGQULD-UHFFFAOYSA-N
Formula: C19H31NO
SMILES: CCCCCCCCCCN=C(O)CCc1ccccc1
Mol. weight [g/mol]: 289.46

Physical Properties

Property code	Value	Unit	Source
hf	-278.76	kJ/mol	Joback Method
hvap	80.24	kJ/mol	Joback Method
log10ws	-5.86		Crippen Method
logp	5.716		Crippen Method
mcvol	266.360	ml/mol	McGowan Method
pc	1352.64	kPa	Joback Method
rinpol	2466.00		NIST Webbook
rinpol	2466.00		NIST Webbook
tb	829.54	K	Joback Method
tc	1026.67	K	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U407157&Units=SI

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