

N,N-Dimethyl-2-phenyl-N'-decyl-acetamide

Inchi: InChI=1S/C20H34N2/c1-4-5-6-7-8-9-10-14-17-21-20(22(2)3)18-19-15-12-11-13-16-19/h1
InchiKey: NMYWBMVULWREOR-UHFFFAOYSA-N
Formula: C20H34N2
SMILES: CCCCCCCCCN=C(Cc1ccccc1)N(C)C
Mol. weight [g/mol]: 302.50

Physical Properties

Property code	Value	Unit	Source
hf	-79.64	kJ/mol	Joback Method
hvap	67.83	kJ/mol	Joback Method
log10ws	-5.53		Crippen Method
logp	5.330		Crippen Method
mcvol	284.560	ml/mol	McGowan Method
pc	1181.71	kPa	Joback Method
rinpol	2271.00		NIST Webbook
rinpol	2271.00		NIST Webbook
tb	772.68	K	Joback Method
tc	969.85	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=R162273&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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

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