Urea, N,N-diphenyl-N'-decyl-

Inchi: InChI=1S/C23H32N2O/c1-2-3-4-5-6-7-8-15-20-24-23(26)25(21-16-11-9-12-17-21)22-18-
InchiKey: CTVRGOJKSOYWOY-UHFFFAOYSA-N
Formula: C23H32N2O
SMILES: CCCCCCCCCCN=C(O)N(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 352.51

Physical Properties

Property code	Value	Unit	Source
hf	-57.26	kJ/mol	Joback Method
hvap	93.46	kJ/mol	Joback Method
log10ws	-6.84		Crippen Method
logp	6.879		Crippen Method
mcvol	308.940	ml/mol	McGowan Method
pc	1299.53	kPa	Joback Method
rinpol	2903.00		NIST Webbook
rinpol	2903.00		NIST Webbook
tb	960.18	K	Joback Method
tc	1180.65	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U407558&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