Urea, N,N-diphenyl-N'-dodecyl-

Inchi: InChI=1S/C25H36N2O/c1-2-3-4-5-6-7-8-9-10-17-22-26-25(28)27(23-18-13-11-14-19-23)
InchiKey: FWNDQFOXVUIIDN-UHFFFAOYSA-N
Formula: C25H36N2O
SMILES: CCCCCCCCCCCCN=C(O)N(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 380.57

Physical Properties

Property code	Value	Unit	Source
hf	-98.54	kJ/mol	Joback Method
hvap	97.91	kJ/mol	Joback Method
log10ws	-7.68		Crippen Method
logp	7.660		Crippen Method
mcvol	337.120	ml/mol	McGowan Method
pc	1136.73	kPa	Joback Method
rinpol	3111.00		NIST Webbook
rinpol	3111.00		NIST Webbook
tb	1005.94	K	Joback Method
tc	1232.26	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U407560&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

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