Urea, N,N-diphenyl-N'-heptyl-

Inchi: InChI=1S/C20H26N2O/c1-2-3-4-5-12-17-21-20(23)22(18-13-8-6-9-14-18)19-15-10-7-11-
InchiKey: WBTOJSPEHOJXOG-UHFFFAOYSA-N
Formula: C20H26N2O
SMILES: CCCCCCCN=C(O)N(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 310.43

Physical Properties

Property code	Value	Unit	Source
hf	4.66	kJ/mol	Joback Method
hvap	86.78	kJ/mol	Joback Method
log10ws	-5.58		Crippen Method
logp	5.709		Crippen Method
mcvol	266.670	ml/mol	McGowan Method
pc	1618.07	kPa	Joback Method
rinpol	2586.00		NIST Webbook
rinpol	2586.00		NIST Webbook
tb	891.54	K	Joback Method
tc	1109.84	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U407555&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