Urea, N,N-diphenyl-N'-(hept-2-yl)-

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

Physical Properties

Property code	Value	Unit	Source
hf	-0.62	kJ/mol	Joback Method
hvap	86.39	kJ/mol	Joback Method
log10ws	-5.70		Crippen Method
logp	5.707		Crippen Method
mcvol	266.670	ml/mol	McGowan Method
pc	1628.54	kPa	Joback Method
rinpol	2434.00		NIST Webbook
rinpol	2434.00		NIST Webbook
tb	891.10	K	Joback Method
tc	1111.72	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U407552&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