Urea, N,N-diphenyl-N'-nonyl-

Inchi: InChI=1S/C22H30N2O/c1-2-3-4-5-6-7-14-19-23-22(25)24(20-15-10-8-11-16-20)21-17-12
InchiKey: PAESDLSXXQNCDC-UHFFFAOYSA-N
Formula: C22H30N2O
SMILES: CCCCCCCCCN=C(O)N(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 338.49

Physical Properties

Property code	Value	Unit	Source
hf	-36.62	kJ/mol	Joback Method
hvap	91.23	kJ/mol	Joback Method
log10ws	-6.42		Crippen Method
logp	6.489		Crippen Method
mcvol	294.850	ml/mol	McGowan Method
pc	1394.37	kPa	Joback Method
rinpol	2800.00		NIST Webbook
rinpol	2800.00		NIST Webbook
tb	937.30	K	Joback Method
tc	1156.22	K	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U407557&Units=SI

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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