N-(Alpha-napthtyl)-N',N'-diphenyl urea

Inchi: InChI=1S/C23H18N2O/c26-23(24-22-17-9-11-18-10-7-8-16-21(18)22)25(19-12-3-1-4-13-
InchiKey: XRAPDLHFGPTBQZ-UHFFFAOYSA-N
Formula: C23H18N2O
SMILES: OC(=Nc1cccc2ccccc12)N(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 338.40
CAS: 60302-02-5

Physical Properties

Property code	Value	Unit	Source
hf	358.87	kJ/mol	Joback Method
hvap	98.04	kJ/mol	Joback Method
log10ws	-6.67		Crippen Method
logp	6.224		Crippen Method
mcvol	265.720	ml/mol	McGowan Method
pc	2041.91	kPa	Joback Method
tb	1010.82	K	Joback Method
tc	1269.49	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C60302025&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature