4-(4-Diethylamino-2-methylphenylimino)-1-oxo-N-

Other names: 2-Phenylcarbamoyl-1,4-naphthoquinone-4-(4-diethylamino-2-methylphenyl)imine
2-Naphthanilide, 4-[4-diethylamino-o-tolylimino]-1,4-dihydro-1-oxo-
Inchi: InChI=1S/C28H27N3O2/c1-4-31(5-2)21-15-16-25(19(3)17-21)30-26-18-24(27(32)23-14-1
InchiKey: ZYKBEIDPRRYKKQ-UHFFFAOYSA-N
Formula: C28H27N3O2
SMILES: CCN(CC)c1ccc(N=C2C=C(C(=O)Nc3ccccc3)C(=O)c3ccccc32)c(C)c1
Mol. weight [g/mol]: 437.53
CAS: 102187-19-9

Physical Properties

Property code	Value	Unit	Source
hf	98.97	kJ/mol	Joback Method
hvap	111.70	kJ/mol	Joback Method
log10ws	-6.82		Crippen Method
logp	5.723		Crippen Method
mcvol	347.720	ml/mol	McGowan Method
pc	1305.17	kPa	Joback Method
tb	1218.30	K	Joback Method
tc	1494.94	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=C102187199&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature