S-diphenylcarbazone

Inchi: InChI=1S/C26H24N8O2/c35-25(31-27-21-7-3-1-4-8-21)33-29-23-15-11-19(12-16-23)20-1
InchiKey: LEKPXSOMGUDVOS-VBMGMRCRSA-N
Formula: C26H24N8O2
SMILES: O=C(N=Nc1ccc(-c2ccc(NNC(=O)NNc3ccccc3)cc2)cc1)NNc1ccccc1
Mol. weight [g/mol]: 480.52

Physical Properties

Property code	Value	Unit	Source
hf	486.09	kJ/mol	Joback Method
hvap	142.68	kJ/mol	Joback Method
log10ws	-8.85		Crippen Method
logp	5.827		Crippen Method
mcvol	360.840	ml/mol	McGowan Method
pc	1628.54	kPa	Joback Method
tb	1468.92	K	Joback Method
tc	1805.03	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=B6000377&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

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