[3-(10,11-Dihydro-dibenzo[b,f]azepin-5-yl)-2-meth

Inchi: InChI=1S/C19H24N2/c1-14(13-20-2)11-16-12-15-7-3-5-9-18(15)21-19-10-6-4-8-17(16)19
InchiKey: LIPVJONNKBYLTO-UHFFFAOYSA-N
Formula: C19H24N2
SMILES: CNCC(C)CC1Cc2ccccc2Nc2ccccc21
Mol. weight [g/mol]: 280.41

Physical Properties

Property code	Value	Unit	Source
gf	550.07	kJ/mol	Joback Method
hf	173.43	kJ/mol	Joback Method
hfus	41.57	kJ/mol	Joback Method
hvap	76.48	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	4.316		Crippen Method
mcvol	240.150	ml/mol	McGowan Method
pc	2003.70	kPa	Joback Method
rinpol	2270.00		NIST Webbook
rinpol	2270.00		NIST Webbook
tb	802.46	K	Joback Method
tc	1039.98	K	Joback Method
tf	542.40	K	Joback Method
vc	0.906	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	726.73	J/mol×K	802.46	Joback Method
cpg	744.73	J/mol×K	842.05	Joback Method
cpg	761.44	J/mol×K	881.63	Joback Method
cpg	776.98	J/mol×K	921.22	Joback Method
cpg	791.44	J/mol×K	960.81	Joback Method
cpg	804.94	J/mol×K	1000.40	Joback Method
cpg	817.59	J/mol×K	1039.98	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R252485&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

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion 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
tf:	Normal melting (fusion) point
vc:	Critical Volume

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