1H-Benzimidazole, 1,2-diphenyl-

Other names: Benzimidazole, 1,2-diphenyl-
1,2-Diphenylbenzimidazole
Inchi: InChI=1S/C19H14N2/c1-3-9-15(10-4-1)19-20-17-13-7-8-14-18(17)21(19)16-11-5-2-6-12-
InchiKey: ZLGVZKQXZYQJSM-UHFFFAOYSA-N
Formula: C19H14N2
SMILES: c1ccc(-c2nc3ccccc3n2-c2ccccc2)cc1
Mol. weight [g/mol]: 270.33
CAS: 2622-67-5

Physical Properties

Property code	Value	Unit	Source
chs	-9774.00 ± 3.00	kJ/mol	NIST Webbook
hfs	297.00 ± 3.00	kJ/mol	NIST Webbook
log10ws	-7.30		Crippen Method
logp	4.692		Crippen Method
mcvol	212.090	ml/mol	McGowan Method
ss	306.80	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	318.70	J/mol×K	298.15	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2622675&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

chs:	Standard solid enthalpy of combustion
cps:	Solid phase heat capacity
hfs:	Solid phase enthalpy of formation at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
ss:	Solid phase molar entropy at standard conditions