2,2'-Bipyridine, 1,1'-dioxide

Other names: 2,2'-Dipyridyl dioxide
[2,2']Bipyridinyl 1,1'-dioxide
Inchi: InChI=1S/C10H8N2O2/c13-11-7-3-1-5-9(11)10-6-2-4-8-12(10)14/h1-8H
InchiKey: FERMVCULDZOVOJ-UHFFFAOYSA-N
Formula: C10H8N2O2
SMILES: [O-][n+]1ccccc1-c1cccc[n+]1[O-]
Mol. weight [g/mol]: 188.18
CAS: 7275-43-6

Physical Properties

Property code	Value	Unit	Source
hfs	16.60 ± 5.20	kJ/mol	NIST Webbook
hsub	180.00 ± 10.00	kJ/mol	NIST Webbook
log10ws	-7.13		Crippen Method
logp	0.620		Crippen Method
mcvol	135.940	ml/mol	McGowan Method
tf	572.00 ± 4.00	K	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C7275436&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hfs: Solid phase enthalpy of formation at standard conditions
hsub: Enthalpy of sublimation at standard conditions
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point