

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+]1cccc1-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/ci9903071
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

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