Glucose phenylosazone

Inchi: InChI=1S/C18H22N4O4/c23-12-16(24)18(26)17(25)15(22-21-14-9-5-2-6-10-14)11-19-20
InchiKey: BZVNQJMWJJOFFB-QMMISXSQSA-N
Formula: C18H22N4O4
SMILES: OCC(O)C(O)C(O)C(C=NNc1ccccc1)=NNc1ccccc1
Mol. weight [g/mol]: 358.39

Physical Properties

Property code	Value	Unit	Source
hf	-304.96	kJ/mol	Joback Method
hvap	145.35	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	0.627		Crippen Method
mcvol	271.760	ml/mol	McGowan Method
pc	2331.52	kPa	Joback Method
tb	1285.58	K	Joback Method
tc	1605.72	K	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=B6003881&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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