2,4-Bis(phenylazo) resorcinol

Inchi: InChI=1S/C18H14N4O2/c23-16-12-11-15(21-19-13-7-3-1-4-8-13)18(24)17(16)22-20-14-9
InchiKey: XVTNUIZCUDPIOU-FLFKKZLDSA-N
Formula: C18H14N4O2
SMILES: Oc1ccc(N=Nc2ccccc2)c(O)c1N=Nc1ccccc1
Mol. weight [g/mol]: 318.33
CAS: 3789-74-0

Physical Properties

Property code	Value	Unit	Source
hf	23.09	kJ/mol	Joback Method
hvap	102.52	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	5.929		Crippen Method
mcvol	236.260	ml/mol	McGowan Method
pc	2077.43	kPa	Joback Method
tb	1155.90	K	Joback Method
tc	1454.30	K	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C3789740&Units=SI

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