

3,3'-Dihydroxy-4,4'-diaminodiphenylmethane

Inchi:	InChI=1S/C13H14N2O2/c14-10-3-1-8(6-12(10)16)5-9-2-4-11(15)13(17)7-9/h1-4,6-7,16-17
InchiKey:	RCYNJDVUURMJOZ-UHFFFAOYSA-N
Formula:	C13H14N2O2
SMILES:	<chem>Nc1ccc(Cc2ccc(N)c(O)c2)cc1O</chem>
Mol. weight [g/mol]:	230.26
CAS:	22428-30-4

Physical Properties

Property code	Value	Unit	Source
chs	-6738.10 ± 2.10	kJ/mol	NIST Webbook
gf	87.80	kJ/mol	Joback Method
hf	-148.57	kJ/mol	Joback Method
hfs	-378.40 ± 2.30	kJ/mol	NIST Webbook
hfus	38.69	kJ/mol	Joback Method
hvap	97.72	kJ/mol	Joback Method
log10ws	-1.94		Crippen Method
logp	1.853		Crippen Method
mcvol	178.210	ml/mol	McGowan Method
pc	4945.39	kPa	Joback Method
ss	284.60	J/mol×K	NIST Webbook
tb	866.46	K	Joback Method
tc	1135.62	K	Joback Method
tf	704.11	K	Joback Method
vc	0.537	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.32	J/mol×K	1090.76	Joback Method
cpg	527.97	J/mol×K	866.46	Joback Method
cpg	540.00	J/mol×K	911.32	Joback Method
cpg	551.91	J/mol×K	956.18	Joback Method
cpg	563.94	J/mol×K	1001.04	Joback Method
cpg	576.34	J/mol×K	1045.90	Joback Method

cpg	603.13	J/mol×K	1135.62	Joback Method
cps	281.20	J/mol×K	298.15	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C22428304&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
cps:	Solid phase heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion 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
ss:	Solid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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