Benzenemethanol, 4-amino-«alpha»,«alpha»-bis(4-aminophenyl)-

Other names: Tris(p-aminophenyl)methanol
4,4',4''-triaminotrityl alcohol
Tris(4-aminophenyl)methanol

Inchi: InChI=1S/C19H19N3O/c20-16-7-1-13(2-8-16)19(23,14-3-9-17(21)10-4-14)15-5-11-18(22

InchiKey: KRVRUAYUNOQMOV-UHFFFAOYSA-N

Formula: C19H19N3O

SMILES: Nc1ccc(C(O)(c2ccc(N)cc2)c2ccc(N)cc2)cc1

Mol. weight [g/mol]: 305.37

CAS: 467-62-9

Physical Properties

Property code	Value	Unit	Source
chs	-10391.00	kJ/mol	NIST Webbook
chs	-10391.00	kJ/mol	NIST Webbook
gf	482.81	kJ/mol	Joback Method
hf	180.08	kJ/mol	Joback Method
hfs	199.00	kJ/mol	NIST Webbook
hfs	127.00	kJ/mol	NIST Webbook
hfus	38.19	kJ/mol	Joback Method
hvap	114.01	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	2.717		Crippen Method
mcvol	243.100	ml/mol	McGowan Method
pc	3045.68	kPa	Joback Method
tb	1035.64	K	Joback Method
tc	1301.22	K	Joback Method
tf	733.73	K	Joback Method
vc	0.871	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	772.03	J/mol×K	1035.64	Joback Method
cpg	782.63	J/mol×K	1079.90	Joback Method

cpg	792.61	J/mol×K	1124.17	Joback Method
cpg	802.13	J/mol×K	1168.43	Joback Method
cpg	811.36	J/mol×K	1212.70	Joback Method
cpg	820.48	J/mol×K	1256.96	Joback Method
cpg	829.65	J/mol×K	1301.22	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=C467629&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas 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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume