4,4'-Bis(dimethylamino)benzhydrol

Other names: 4,4'-Bis-(dimethylamino)-diphenylcarbinol
Benzenemethanol, 4-(dimethylamino)-«alpha»-[4-(dimethylamino)phenyl]-«alpha»,«alpha»-Bis(p-dimethylaminophenyl)methanol
p,p'-Bis(dimethylamino)benzhydrol
Benzhydrol, 4,4'-bis(dimethylamino)-
Bis(4-(dimethylamino)phenyl)methanol
Michler's hydrol
N,N'-Tetramethyl-4,4'-diaminobenzohydrol
P,P'-Michler's hydrol
Tetramethyldiaminobenzhydrol
4,4'-Bis(dimethylamino)benzohydrol
4,4'-Bis(dimethylamino)diphenylmethanol
Benzhydrol, 4,4'(dimethyl-amino)-
Benzohydrol, 4,4'-bis(dimethylamino)-
NSC 3563
4,4'-bis(dimethylamino)benzhydryl alcohol

Inchi: InChI=1S/C17H22N2O/c1-18(2)15-9-5-13(6-10-15)17(20)14-7-11-16(12-8-14)19(3)4/h5-1

InchiKey: YLZSIUVOIFJGQZ-UHFFFAOYSA-N

Formula: C17H22N2O

SMILES: CN(C)c1ccc(C(O)c2ccc(N(C)C)cc2)cc1

Mol. weight [g/mol]: 270.37

CAS: 119-58-4

Physical Properties

Property code	Value	Unit	Source
gf	380.12	kJ/mol	Joback Method
hf	33.46	kJ/mol	Joback Method
hfus	33.70	kJ/mol	Joback Method
hvap	79.69	kJ/mol	Joback Method
log10ws	-3.11		Crippen Method
logp	2.900		Crippen Method
mcvol	228.700	ml/mol	McGowan Method
pc	2220.80	kPa	Joback Method
tb	768.30	K	Joback Method
tc	979.02	K	Joback Method
tf	469.99	K	Joback Method
vc	0.821	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	665.66	J/mol×K	768.30	Joback Method
cpg	680.82	J/mol×K	803.42	Joback Method
cpg	694.95	J/mol×K	838.54	Joback Method
cpg	708.10	J/mol×K	873.66	Joback Method
cpg	720.35	J/mol×K	908.78	Joback Method
cpg	731.78	J/mol×K	943.90	Joback Method
cpg	742.46	J/mol×K	979.02	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C119584&Units=SI
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

Legend

cpg: Ideal gas heat capacity
gf: Standard Gibbs free energy of formation
hf: 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