Alpha^2,alpha^6-bis-(dimethylamino)-2,6-xylenol

Other names: «alpha»,«alpha»'-bis(dimethylamino)-2,6-xylenol
Alpha
Inchi: InChI=1S/C12H20N2O/c1-13(2)8-10-6-5-7-11(12(10)15)9-14(3)4/h5-7,15H,8-9H2,1-4H3
InchiKey: VUENIEFVRKDJAS-UHFFFAOYSA-N
Formula: C12H20N2O
SMILES: CN(C)Cc1cccc(CN(C)C)c1O
Mol. weight [g/mol]: 208.30
CAS: 15827-34-6

Physical Properties

Property code	Value	Unit	Source
gf	219.88	kJ/mol	Joback Method
hf	-108.20	kJ/mol	Joback Method
hfus	32.31	kJ/mol	Joback Method
hvap	62.34	kJ/mol	Joback Method
log10ws	-1.59		Crippen Method
logp	1.515		Crippen Method
mcvol	182.010	ml/mol	McGowan Method
pc	2744.03	kPa	Joback Method
tb	611.12	K	Joback Method
tc	817.40	K	Joback Method
tf	440.60	K	Joback Method
vc	0.602	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	478.70	J/mol×K	611.12	Joback Method
cpg	494.53	J/mol×K	645.50	Joback Method
cpg	509.37	J/mol×K	679.88	Joback Method
cpg	523.31	J/mol×K	714.26	Joback Method
cpg	536.43	J/mol×K	748.64	Joback Method
cpg	548.82	J/mol×K	783.02	Joback Method
cpg	560.55	J/mol×K	817.40	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15827346&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

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