4,4'-Dimethoxy-N-methyldiphenylamine

Other names:	Benzenamine, 4-methoxy-N-(4-methoxyphenyl)-N-methyl- N-(4-methoxyphenyl)-N-methyl-p-anisidine
Inchi:	InChI=1S/C15H17NO2/c1-16(12-4-8-14(17-2)9-5-12)13-6-10-15(18-3)11-7-13/h4-11H,1-
InchiKey:	JBSYDIKKOAPATG-UHFFFAOYSA-N
Formula:	C15H17NO2
SMILES:	COc1ccc(N(C)c2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	243.30
CAS:	27151-57-1

Physical Properties

Property code	Value	Unit	Source
gf	181.76	kJ/mol	Joback Method
hf	-99.72	kJ/mol	Joback Method
hfus	27.31	kJ/mol	Joback Method
hvap	61.72	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.472		Crippen Method
mcvol	196.410	ml/mol	McGowan Method
pc	2351.92	kPa	Joback Method
tb	663.20	K	Joback Method
tc	889.52	K	Joback Method
tf	413.62	K	Joback Method
vc	0.714	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	512.04	J/mol×K	663.20	Joback Method
cpg	529.02	J/mol×K	700.92	Joback Method
cpg	544.85	J/mol×K	738.64	Joback Method
cpg	559.54	J/mol×K	776.36	Joback Method
cpg	573.13	J/mol×K	814.08	Joback Method
cpg	585.66	J/mol×K	851.80	Joback Method
cpg	597.14	J/mol×K	889.52	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=C27151571&Units=SI

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