

4,4'-Methylene-bis-(n-methylaniline)

Inchi:	InChI=1S/C15H18N2/c1-16-14-7-3-12(4-8-14)11-13-5-9-15(17-2)10-6-13/h3-10,16-17H,1
InchiKey:	ZMVMYBGDGLCHV-UHFFFAOYSA-N
Formula:	C15H18N2
SMILES:	CNc1ccc(Cc2ccc(NC)cc2)cc1
Mol. weight [g/mol]:	226.32
CAS:	1807-55-2

Physical Properties

Property code	Value	Unit	Source
gf	459.76	kJ/mol	Joback Method
hf	204.13	kJ/mol	Joback Method
hfus	32.11	kJ/mol	Joback Method
hvap	67.73	kJ/mol	Joback Method
log10ws	-3.59		Crippen Method
logp	3.361		Crippen Method
mcvol	194.650	ml/mol	McGowan Method
pc	2500.00	kPa	Joback Method
tb	706.26	K	Joback Method
tc	938.56	K	Joback Method
tf	442.01	K	Joback Method
vc	0.730	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	527.77	J/molxK	706.26	Joback Method
cpg	543.92	J/molxK	744.98	Joback Method
cpg	558.89	J/molxK	783.69	Joback Method
cpg	572.74	J/molxK	822.41	Joback Method
cpg	585.54	J/molxK	861.13	Joback Method
cpg	597.36	J/molxK	899.84	Joback Method
cpg	608.26	J/molxK	938.56	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1807552&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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