p,p'-Ditolylamine

Other names:	Benzenamine, 4-methyl-N-(4-methylphenyl)- di-p-tolylamine 4-methyl-N-(4-methylphenyl)-benzenamine
Inchi:	InChI=1S/C14H15N/c1-11-3-7-13(8-4-11)15-14-9-5-12(2)6-10-14/h3-10,15H,1-2H3
InchiKey:	RHPVVNRNAHRJOQ-UHFFFAOYSA-N
Formula:	C14H15N
SMILES:	Cc1ccc(Nc2ccc(C)cc2)cc1
Mol. weight [g/mol]:	197.28
CAS:	620-93-9

Physical Properties

Property code	Value	Unit	Source
gf	361.95	kJ/mol	Joback Method
hf	171.30	kJ/mol	Joback Method
hfus	24.42	kJ/mol	Joback Method
hvap	59.07	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	4.047		Crippen Method
mcvol	170.580	ml/mol	McGowan Method
pc	2721.17	kPa	Joback Method
tb	633.21	K	Joback Method
tc	872.67	K	Joback Method
tf	378.08	K	Joback Method
vc	0.638	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	423.17	J/mol×K	633.21	Joback Method
cpg	439.68	J/mol×K	673.12	Joback Method
cpg	454.98	J/mol×K	713.03	Joback Method
cpg	469.14	J/mol×K	752.94	Joback Method
cpg	482.23	J/mol×K	792.85	Joback Method
cpg	494.31	J/mol×K	832.76	Joback Method

cpg	505.44	J/mol×K	872.67	Joback Method

Sources

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=C620939&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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