

Benzenemethanamine, N-(4-methylphenyl)-

Other names:	N-Benzyl-N-(4-methylphenyl)amine N-Benzyl-p-toluidine N-Benzyl-4-toluidine NSC 8084
Inchi:	InChI=1S/C14H15N/c1-12-7-9-14(10-8-12)15-11-13-5-3-2-4-6-13/h2-10,15H,11H2,1H3
InchiKey:	KEVOWRWHMCKERP-UHFFFAOYSA-N
Formula:	C14H15N
SMILES:	<chem>Cc1ccc(NCc2ccccc2)cc1</chem>
Mol. weight [g/mol]:	197.28
CAS:	5405-15-2

Physical Properties

Property code	Value	Unit	Source
gf	371.58	kJ/mol	Joback Method
hf	182.77	kJ/mol	Joback Method
hfus	24.81	kJ/mol	Joback Method
hvap	58.41	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	3.607		Crippen Method
mcvol	170.580	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
rinpol	1777.00		NIST Webbook
tb	628.23	K	Joback Method
tc	866.74	K	Joback Method
tf	365.56	K	Joback Method
vc	0.638	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	423.81	J/molxK	628.23	Joback Method
cpg	440.56	J/molxK	667.98	Joback Method
cpg	456.06	J/molxK	707.73	Joback Method
cpg	470.37	J/molxK	747.49	Joback Method

cpg	483.58	J/mol×K	787.24	Joback Method
cpg	495.75	J/mol×K	826.99	Joback Method
cpg	506.95	J/mol×K	866.74	Joback Method

Sources

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=C5405152&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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