

Aniline, m-phenethyl-

Other names:	Benzenamine, 3-(2-phenylethyl)- 1-(3-Aminophenyl)-2-phenylethane
Inchi:	InChI=1S/C14H15N/c15-14-8-4-7-13(11-14)10-9-12-5-2-1-3-6-12/h1-8,11H,9-10,15H2
InchiKey:	VJPPMUFNJJMKGK-UHFFFAOYSA-N
Formula:	C14H15N
SMILES:	<chem>Nc1cccc(CCc2ccccc2)c1</chem>
Mol. weight [g/mol]:	197.28
CAS:	5369-22-2

Physical Properties

Property code	Value	Unit	Source
gf	348.64	kJ/mol	Joback Method
hf	163.09	kJ/mol	Joback Method
hfus	24.91	kJ/mol	Joback Method
hvap	62.61	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.054		Crippen Method
mvol	170.580	ml/mol	McGowan Method
pc	2896.73	kPa	Joback Method
tb	650.59	K	Joback Method
tc	897.89	K	Joback Method
tf	396.16	K	Joback Method
vc	0.632	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	434.11	J/molxK	650.59	Joback Method
cpg	450.44	J/molxK	691.81	Joback Method
cpg	465.49	J/molxK	733.02	Joback Method
cpg	479.34	J/molxK	774.24	Joback Method
cpg	492.07	J/molxK	815.46	Joback Method
cpg	503.76	J/molxK	856.68	Joback Method
cpg	514.50	J/molxK	897.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5369222&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
hvp:	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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