Benzenamine, 3-(2-phenylethenyl)-, (E)-

Other names:	3-Stilbenamine, (E)-
	trans-o-Aminostilbene
	3-[(E)-2-Phenylethenyl]aniline
	trans-3-Aminostilbene
	1-(3-Aminophenyl)-2-phenylethane
Inchi:	InChI=1S/C14H13N/c15-14-8-4-7-13(11-14)10-9-12-5-2-1-3-6-12/h1-11H,15H2/b10-9+
InchiKey:	STNDIHAVRCIBCC-MDZDMXLPSA-N
Formula:	C14H15N
SMILES:	Nc1cccc(C=Cc2ccccc2)c1
Mol. weight [g/mol]:	197.28
CAS:	14064-82-5

Physical Properties

Property code	Value	Unit	Source
gf	428.86	kJ/mol	Joback Method
hf	280.31	kJ/mol	Joback Method
hfus	25.11	kJ/mol	Joback Method
hvap	62.57	kJ/mol	Joback Method
log10ws	-3.71		Crippen Method
logp	3.439		Crippen Method
mcvol	166.280	ml/mol	McGowan Method
pc	3065.95	kPa	Joback Method
tb	654.75	K	Joback Method
tc	913.00	K	Joback Method
tf	391.08	K	Joback Method
vc	0.613	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	412.12	J/mol×K	654.75	Joback Method
cpg	427.78	J/mol×K	697.79	Joback Method
cpg	442.12	J/mol×K	740.83	Joback Method
cpg	455.25	J/mol×K	783.88	Joback Method

cpg	467.28	J/mol×K	826.92	Joback Method
cpg	478.33	J/mol×K	869.96	Joback Method
cpg	488.51	J/mol×K	913.00	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=C14064825&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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