1-(4-Aminophenyl)-2-phenylethane

Other names:	4-Stilbenamine
	p-Styrylaniline
	4-Aminostilbene
	p-Aminostilbene
	4-N-Stilbenamine
	1-(4-Aminophenyl)-2-phenylethylene
	4-[2-Phenylethenyl]aniline
	1-(4-Aminophenyl)-2-phenylethane
Inchi:	InChI=1S/C14H13N/c15-14-10-8-13(9-11-14)7-6-12-4-2-1-3-5-12/h1-11H,15H2/b7-6+
InchiKey:	VFPLSXYJYAKZCT-VOTSOKGWSA-N
Formula:	C14H13N
SMILES:	Nc1ccc(/C=C/c2ccccc2)cc1
Mol. weight [g/mol]:	195.27

Physical Properties

Property code	Value	Unit	Source
af	0.5326		Cheméo Relay (1.0)
gf	428.86	kJ/mol	Joback Method
hf	241.04	kJ/mol	Cheméo Relay (1.0)
hfus	25.11	kJ/mol	Joback Method
hvap	94.27	kJ/mol	Cheméo Relay (1.0)
ie	7.70 ± 0.10	eV	NIST Webbook
log10ws	-3.70		Cheméo Relay (1.0)
logp	3.439		Crippen Method
mcvol	166.280	ml/mol	McGowan Method
pc	3065.95	kPa	Joback Method
tb	638.67	K	Cheméo Relay (1.0)
tc	893.33	K	Cheméo Relay (1.0)
tf	414.53	K	Cheméo Relay (1.0)
vc	0.593	m3/kmol	Cheméo Relay (1.0)

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
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C834242&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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