

4-Aminostyrene

Other names:	Benzenamine, 4-ethenyl- p-Aminostyrene Aniline, p-vinyl- 4-vinylaniline
Inchi:	InChI=1S/C8H9N/c1-2-7-3-5-8(9)6-4-7/h2-6H,1,9H2
InchiKey:	LBSXSAXOLABXMF-UHFFFAOYSA-N
Formula:	C8H9N
SMILES:	<chem>C=Cc1ccc(N)cc1</chem>
Mol. weight [g/mol]:	119.16
CAS:	1520-21-4

Physical Properties

Property code	Value	Unit	Source
gf	273.55	kJ/mol	Joback Method
hf	175.83	kJ/mol	Joback Method
hfus	14.04	kJ/mol	Joback Method
hvap	46.31	kJ/mol	Joback Method
log10ws	-1.93		Crippen Method
logp	1.912		Crippen Method
mcvol	105.500	ml/mol	McGowan Method
pc	4051.80	kPa	Joback Method
tb	483.31	K	Joback Method
tc	712.87	K	Joback Method
tf	298.00	K	NIST Webbook
vc	0.386	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	211.57	J/mol×K	483.31	Joback Method
cpg	223.39	J/mol×K	521.57	Joback Method
cpg	234.43	J/mol×K	559.83	Joback Method
cpg	244.73	J/mol×K	598.09	Joback Method
cpg	254.34	J/mol×K	636.35	Joback Method

cpg	263.28	J/mol×K	674.61	Joback Method
cpg	271.60	J/mol×K	712.87	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	389.20	K	1.00	NIST Webbook
tbrp	389.00 ± 1.00	K	1.15	NIST Webbook
tbrp	348.50 ± 1.50	K	0.30	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1520214&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
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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