2-Aminopyridine

Other names:	.alpha.-aminopyridine
	1,2-dihydro-2-iminopyridine
	2-Pyridylamine
	2-pyridinamine
	Amino-2 pyridine
	NSC 431
	o-Aminopyridine
	pyridine, 2-amino-
	«alpha»-Aminopyridine
	«alpha»-Pyridinamine
	«alpha»-Pyridylamine
	«beta»-Pyridylamine
Inchi:	InChI=1S/C5H6N2/c6-5-3-1-2-4-7-5/h1-4H,(H2,6,7)
InchiKey:	ICSNLGPSRYBMBD-UHFFFAOYSA-N
Formula:	C5H6N2
SMILES:	Nc1ccccn1
Mol. weight [g/mol]:	94.11
CAS:	504-29-0

Physical Properties

Property code	Value	Unit	Source
affp	947.20	kJ/mol	NIST Webbook
basg	915.30	kJ/mol	NIST Webbook
chs	-2864.40 ± 0.50	kJ/mol	NIST Webbook
hf	118.10 ± 1.10	kJ/mol	NIST Webbook
hfs	39.40 ± 0.80	kJ/mol	NIST Webbook
hsub	78.70 ± 0.80	kJ/mol	NIST Webbook
hsub	78.70	kJ/mol	NIST Webbook
hsub	78.70 ± 0.80	kJ/mol	NIST Webbook
hsub	76.50 ± 0.40	kJ/mol	NIST Webbook
ie	8.85 ± 0.05	eV	NIST Webbook
ie	8.34	eV	NIST Webbook
ie	8.50 ± 0.10	eV	NIST Webbook
ie	8.40	eV	NIST Webbook
ie	9.30	eV	NIST Webbook
ie	8.00	eV	NIST Webbook
ie	8.10 ± 0.00	eV	NIST Webbook

log10ws	-0.87		Crippen Method
logp	0.664		Crippen Method
mcvol	77.510	ml/mol	McGowan Method
rinpol	1002.00		NIST Webbook
rinpol	1002.00		NIST Webbook
ripol	1896.00		NIST Webbook
ripol	1915.00		NIST Webbook
ripol	1892.00		NIST Webbook
ripol	1906.00		NIST Webbook
ripol	1889.00		NIST Webbook
ripol	1892.00		NIST Webbook
ripol	1873.00		NIST Webbook
tb	480.20	K	NIST Webbook
tb	477.00	K	NIST Webbook
tf	330.95	K	Solubility of 2-Aminopyridine in Ethanol + n-Butyl Acetate from (288.15 to 318.15) K
tf	330.60	K	NIST Webbook
tf	329.15 ± 1.50	K	NIST Webbook
tf	331.65 ± 0.20	K	NIST Webbook
tf	330.70	K	Liquid-Liquid Equilibria for Systems of 1-Butanol + Water + 2,6-Diaminopyridine and 1-Butanol + Water + 2-Aminopyridine
tf	330.95	K	Solubility of 2-Aminopyridine in Acetone, Chloroform, and Ethyl Acetate

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	15.30	kJ/mol	331.50	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	378.00 ± 1.00	K	2.70	NIST Webbook

Sources

Solubility of 2-Aminopyridine in Ethanol + n-Butyl Acetate from (288.15 to 318.15) K:	https://www.doi.org/10.1021/je800841v
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C504290&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Solubility of 2-Aminopyridine in Acetone, Chloroform, and Ethyl Acetate:	https://www.doi.org/10.1021/je800768x
Liquid-Liquid Equilibria for Systems of 1-Butanol + Water + 2,6-Diaminopyridine and 1-Butanol + Water + 2-Aminopyridine:	https://www.doi.org/10.1021/je8007843

Legend

affp:	Proton affinity
basg:	Gas basicity
chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tf:	Normal melting (fusion) point