

2-Pyridinamine, 3-methyl-

Other names:	2-Amino-«beta»-picoline 2-amino-3-methylpyridine 2-amino-3-picoline 3-Methyl-2-aminopyridine 3-Picoline, 2-amino- 3-methyl-2-pyridinamine 3-methyl-2-pyridylamine NSC 450 Pyridine, 2-amino-3-methyl-
Inchi:	InChI=1S/C6H8N2/c1-5-3-2-4-8-6(5)7/h2-4H,1H3,(H2,7,8)
InchiKey:	RGDQRXPEZUNWHX-UHFFFAOYSA-N
Formula:	C6H8N2
SMILES:	Cc1cccnc1N
Mol. weight [g/mol]:	108.14
CAS:	1603-40-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.35		Crippen Method
logp	0.972		Crippen Method
mccvol	91.600	ml/mol	McGowan Method
rinpol	1099.00		NIST Webbook
rinpol	1055.50		NIST Webbook
ripol	1883.00		NIST Webbook
ripol	1883.00		NIST Webbook
tb	494.70	K	NIST Webbook
tf	299.25 ± 0.25	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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pvap	5.16	kPa	402.57	Vapor-Liquid Equilibrium for the Binary System of N,N-Dimethylaniline with 2-Amino-3-methylpyridine
pvap	8.04	kPa	413.74	Vapor-Liquid Equilibrium for the Binary System of N,N-Dimethylaniline with 2-Amino-3-methylpyridine
pvap	0.10	kPa	328.70	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	0.11	kPa	329.84	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	0.17	kPa	336.23	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	0.27	kPa	344.13	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	0.37	kPa	349.18	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	0.52	kPa	354.89	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	0.60	kPa	357.64	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	0.69	kPa	359.93	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	0.82	kPa	363.55	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	1.08	kPa	368.61	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	1.47	kPa	374.67	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine

pvap	2.67	kPa	387.23	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	3.13	kPa	390.85	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	4.32	kPa	398.46	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	5.82	kPa	405.57	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	7.34	kPa	411.35	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	8.67	kPa	415.63	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	10.75	kPa	421.50	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	12.61	kPa	425.85	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	13.95	kPa	428.75	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	15.29	kPa	431.43	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	17.74	kPa	435.66	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	20.12	kPa	439.42	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	23.01	kPa	443.51	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	26.50	kPa	447.94	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	27.30	kPa	448.95	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine

pvap	28.88	kPa	450.76	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	29.81	kPa	451.84	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	32.09	kPa	454.19	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	33.15	kPa	455.25	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	34.61	kPa	456.78	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	36.08	kPa	457.95	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	38.48	kPa	460.15	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	40.22	kPa	461.72	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	50.38	kPa	469.63	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	63.87	kPa	478.22	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	76.42	kPa	484.84	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	87.65	kPa	490.45	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	99.74	kPa	495.13	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	101.44	kPa	496.05	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine

pvap	105.38	kPa	497.73	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	108.53	kPa	498.80	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine
pvap	111.35	kPa	499.88	Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	494.70	K	99.70	NIST Webbook
tbrp	495.00	K	99.70	NIST Webbook
tbrp	375.50 ± 0.50	K	1.50	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Adducts of antimony triiodide and 2-aminomethylpyridines: Synthesis, Characterization and Equilibrium for the Binary System of N,N-Dimethylaniline with 2-Amino-3-methylpyridine	https://www.doi.org/10.1016/j.tca.2005.08.006
Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine	https://www.doi.org/10.1021/je101180r
Vapor Pressure and Enthalpy of Vaporization of 2-Amino-3-methylpyridine	https://www.doi.org/10.1021/je700371w
McGowan's Method	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1603403&Units=SI

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pvap:	Vapor pressure
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

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