

3-(2-(N-methylpyrrolidinyl))pyridine

Other names:

- (-)-3-(1-Methyl-2-pyrrolidyl)pyridine
- (-)-3-(N-methylpyrrolidino)pyridine
- (-)-nicotine
- (-)-«beta»-Pyridyl-«alpha»-N-methylpyrrolidine
- (S)-(-)-Nicotine
- (S)-3-(1-methyl-2-pyrrolidinyl)pyridine
- (S)-nicotine
- 1-Methyl-2-(3-pyridyl)pyrrolidine
- 1-Methyl-2-(3-pyridyl)pyrrolidine
- 3-(1-Methyl-2-pyrrolidinyl)pyridine
- 3-(1-methyl-2-pyrrolidinyl)pyridine
- 3-(N-methylpyrrolidino)pyridine
- Black Leaf
- Black Leaf 40
- Campbell's nico-soap
- Destruxol orchid spray
- Emo-Nik
- Flux MAAG
- Fumetobac
- Habitrol
- L-3-(1-Methyl-2-pyrrolidyl)pyridine
- L-nicotine
- Mach-Nic
- NSC 5065
- Niagara P.A. dust
- Nic-Sal
- Nico-Dust
- Nico-Fume
- Nicocide
- Nicotin
- Nicotina
- Nicotine alkaloid
- Nicotrol
- Nikotin
- Nikotyna
- Ortho N-4 and N-5 dusts
- Ortho N-4 dust
- Ortho N-5 dust
- Pyridine, 3-(tetrahydro-1-methylpyrrol-2-yl), (S)-
- Pyrrolidine, 1-methyl-2-(3-pyridyl)-

CAS:

54-11-5

Property code	Value	Unit	Temperature [K]	Source
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hvapt	63.90	kJ/mol	298.00	Hypothetical Thermodynamic Properties. Subcooled Vaporization Enthalpies and Vapor Pressures of Polyaromatic Heterocycles and Related Compounds
hvapt	46.10	kJ/mol	448.00	NIST Webbook
pvap	0.11	kPa	340.70	Thermodynamic properties of S-(-)-nicotine
pvap	0.05	kPa	327.90	Thermodynamic properties of S-(-)-nicotine
pvap	568.97	kPa	617.80	Vapor pressure data of nicotine, anabesine and cotinine using differential scanning calorimetry
pvap	500.02	kPa	609.30	Vapor pressure data of nicotine, anabesine and cotinine using differential scanning calorimetry
pvap	397.81	kPa	594.80	Vapor pressure data of nicotine, anabesine and cotinine using differential scanning calorimetry
pvap	2.40e-03	kPa	288.70	Thermodynamic properties of S-(-)-nicotine
pvap	3.51e-03	kPa	293.80	Thermodynamic properties of S-(-)-nicotine
pvap	5.52e-03	kPa	298.50	Thermodynamic properties of S-(-)-nicotine
pvap	8.21e-03	kPa	303.30	Thermodynamic properties of S-(-)-nicotine
pvap	0.01	kPa	308.20	Thermodynamic properties of S-(-)-nicotine
pvap	0.01	kPa	308.20	Thermodynamic properties of S-(-)-nicotine
pvap	0.02	kPa	313.10	Thermodynamic properties of S-(-)-nicotine

pvap	0.03	kPa	318.10	Thermodynamic properties of S-(-)-nicotine
pvap	0.04	kPa	323.00	Thermodynamic properties of S-(-)-nicotine
pvap	0.14	kPa	343.10	Thermodynamic properties of S-(-)-nicotine
pvap	0.07	kPa	333.20	Thermodynamic properties of S-(-)-nicotine
pvap	0.08	kPa	335.70	Thermodynamic properties of S-(-)-nicotine
pvap	0.10	kPa	338.20	Thermodynamic properties of S-(-)-nicotine
pvap	247.84	kPa	566.40	Vapor pressure data of nicotine, anabesine and cotinine using differential scanning calorimetry
pvap	99.84	kPa	520.40	Vapor pressure data of nicotine, anabesine and cotinine using differential scanning calorimetry
pvap	0.51	kPa	363.20	Thermodynamic properties of S-(-)-nicotine
pvap	0.21	kPa	348.20	Thermodynamic properties of S-(-)-nicotine
pvap	0.22	kPa	350.60	Thermodynamic properties of S-(-)-nicotine
pvap	0.27	kPa	353.20	Thermodynamic properties of S-(-)-nicotine
pvap	0.37	kPa	358.10	Thermodynamic properties of S-(-)-nicotine
pvap	0.16	kPa	345.60	Thermodynamic properties of S-(-)-nicotine
pvap	0.67	kPa	368.10	Thermodynamic properties of S-(-)-nicotine
pvap	0.86	kPa	373.10	Thermodynamic properties of S-(-)-nicotine

pvap	14.96	kPa	447.70	Vapor pressure data of nicotine, anabasine and cotinine using differential scanning calorimetry
pvap	19.93	kPa	457.20	Vapor pressure data of nicotine, anabasine and cotinine using differential scanning calorimetry
pvap	29.87	kPa	471.10	Vapor pressure data of nicotine, anabasine and cotinine using differential scanning calorimetry
pvap	49.83	kPa	490.60	Vapor pressure data of nicotine, anabasine and cotinine using differential scanning calorimetry
pvap	79.61	kPa	510.10	Vapor pressure data of nicotine, anabasine and cotinine using differential scanning calorimetry
rhoI	1010.23	kg/m3	293.15	Thermodynamic and spectroscopic interpretation of molecular interactions of nicotine + alcohol binary mixtures
rhoI	998.05	kg/m3	308.15	Thermodynamic and spectroscopic interpretation of molecular interactions of nicotine + alcohol binary mixtures
rhoI	985.96	kg/m3	323.15	Thermodynamic and spectroscopic interpretation of molecular interactions of nicotine + alcohol binary mixtures

rhoI	989.98	kg/m3	318.15	Thermodynamic and spectroscopic interpretation of molecular interactions of nicotine + alcohol binary mixtures
rhoI	994.01	kg/m3	313.15	Thermodynamic and spectroscopic interpretation of molecular interactions of nicotine + alcohol binary mixtures
rhoI	1002.10	kg/m3	303.15	Thermodynamic and spectroscopic interpretation of molecular interactions of nicotine + alcohol binary mixtures
rhoI	1006.16	kg/m3	298.15	Thermodynamic and spectroscopic interpretation of molecular interactions of nicotine + alcohol binary mixtures

Sources

Liquid-liquid phase equilibria in nicotine (aqueous) solutions: Thermodynamic and spectroscopic interpretation of molecular interactions of nicotine + alcohol binary mixtures: McGowan Method:

<https://www.doi.org/10.1016/j.fluid.2011.08.022>

<https://www.doi.org/10.1016/j.jct.2016.07.005>

<http://link.springer.com/article/10.1007/BF02311772>

Thermodynamic properties of S-(-)-nicotine: Aqueous Solubility Prediction Method:

<https://www.doi.org/10.1016/j.jct.2018.01.014>

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

Cheméo Relay (1.0, beta):

Liquid-liquid equilibria of imidazolium ionic liquids having bistriflamide or bistrifluoromethylphosphonium cations with aromatic non-polar compounds: KDB:

<https://www.doi.org/10.1016/j.fluid.2012.10.007>

<https://www.doi.org/10.1021/je2001446>

<https://www.cheric.org/research/kdb/hcprop/showprop.php?cmpid=1489>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Hypothetical Thermodynamic Properties. Subcooled Vaporization Enthalpies and Phase Pressures of Binary (Glyc + nicotine) and Ternary (Glyc + nicotine + solanesol) mixtures: Chemical Research:

<https://www.doi.org/10.1021/je900034d>

<https://www.doi.org/10.1016/j.fluid.2009.04.008>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C54115&Units=SI>

Vapor pressure data of nicotine, anabasine and cotinine using Differential Scanning Calorimetry:

<https://www.doi.org/10.1016/j.tca.2014.08.033>

Liquid liquid equilibrium of ternary systems containing nicotine:

<https://www.doi.org/10.1016/j.fluid.2007.02.016>

Legend

affp:	Proton affinity
basg:	Gas basicity
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pvap:	Vapor pressure
rho:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature

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