

Pyridine, 5-ethyl-2-methyl-

Other names:	2,5-Aldehydine
	2-Methyl-5-ethylpyridine
	2-Picoline, 5-ethyl-
	3-Ethyl-6-methylpyridine
	5-ETHYL-2-PICOLINE
	5-Ethyl-2-methylpyridine
	5-Ethyl-«alpha»-picoline
	5-Ethyl-Â«alphaÂ»-picoline
	5-ethyl-.alpha.-picoline
	6-Methyl-3-ethylpyridine
	ALDEHYDECOLLIDINE
	Aldehydine
	Aldehydkollidin
	Collidine, aldehydecollidine
	MEP
	NSC 1984
	Pyridine, 2-methyl-5-ethyl
	UN 2300
	pyridine, 3-ethyl-6-methyl-
Inchi:	InChI=1S/C8H11N/c1-3-8-5-4-7(2)9-6-8/h4-6H,3H2,1-2H3
InchiKey:	NTSLROIKFLNUIJ-UHFFFAOYSA-N
Formula:	C8H11N
SMILES:	CCc1ccc(C)nc1
Mol. weight [g/mol]:	121.18
CAS:	104-90-5

Physical Properties

Property code	Value	Unit	Source
af	0.3930		KDB
chl	-4708.70 ± 1.90	kJ/mol	NIST Webbook
hf	34.90 ± 2.00	kJ/mol	NIST Webbook
hfl	-11.40 ± 1.90	kJ/mol	NIST Webbook
hvap	46.30	kJ/mol	NIST Webbook
hvap	46.30 ± 0.40	kJ/mol	NIST Webbook
log10ws	-2.52		Crippen Method
logp	1.952		Crippen Method
mcvol	109.800	ml/mol	McGowan Method

nfpa	%!d(float64=2)		KDB
nfpa	%!d(float64=3)		KDB
pc	3046.00	kPa	KDB
ripol	1000.00		NIST Webbook
ripol	1029.00		NIST Webbook
ripol	986.00		NIST Webbook
ripol	982.00		NIST Webbook
ripol	1000.00		NIST Webbook
ripol	1023.00		NIST Webbook
ripol	1038.00		NIST Webbook
ripol	1038.00		NIST Webbook
ripol	1019.00		NIST Webbook
ripol	1409.00		NIST Webbook
ripol	1407.00		NIST Webbook
ripol	1408.00		NIST Webbook
ripol	1408.00		NIST Webbook
ripol	1408.00		NIST Webbook
ripol	1413.00		NIST Webbook
ripol	1411.00		NIST Webbook
tb	451.35	K	NIST Webbook
tb	451.50	K	KDB
tb	451.50	K	NIST Webbook
tb	449.15 ± 2.00	K	NIST Webbook
tc	656.00	K	Critical point measurements of four pyridines
tc	662.00	K	KDB
tf	203.00	K	KDB
tf	202.85	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	45.40	kJ/mol	399.50	NIST Webbook
hvapt	51.60	kJ/mol	264.50	NIST Webbook

Correlations

Information	Value
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Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.47377e+01
Coeff. B	-3.89439e+03
Coeff. C	-6.66530e+01
Temperature range (K), min.	336.16
Temperature range (K), max.	479.80

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	4.53580e+02
Coeff. B	-2.51131e+04
Coeff. C	-6.60315e+01
Coeff. D	5.02700e-05
Temperature range (K), min.	325.15
Temperature range (K), max.	450.15

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C104905&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
KDB Vapor Pressure Data:	https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=1360
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemo.com/doc/models/crippen_log10ws
Critical point measurements of four pyridines:	https://www.doi.org/10.1016/j.fluid.2017.05.010
KDB:	https://www.thermo.com/files/research/kdb/mol/mol1360.mol
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
chl:	Standard liquid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
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
nfpaf:	NFPA Fire Rating
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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