

2-Amino-5-nitropyridine

Other names:	2-Pyridinamine, 5-nitro- 5-Nitro-2-aminopyridine 5-nitropyrimidin-2-ylamine Pyridine, 2-amino-5-nitro-
Inchi:	InChI=1S/C5H5N3O2/c6-5-2-1-4(3-7-5)8(9)10/h1-3H,(H2,6,7)
InchiKey:	UGSBCCAHDVCHGI-UHFFFAOYSA-N
Formula:	C5H5N3O2
SMILES:	<chem>Nc1ccc([N+](=O)[O-])cn1</chem>
Mol. weight [g/mol]:	139.11
CAS:	4214-76-0

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.52		Crippen Method
logp	0.572		Crippen Method
mvol	94.930	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	88.71	J/molxK	151.26	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	52.77	J/molxK	80.24	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	54.56	J/molxK	84.16	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)

cps	56.26	J/molxK	87.02	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	58.05	J/molxK	89.97	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	60.06	J/molxK	93.01	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	61.79	J/molxK	96.12	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	63.52	J/molxK	99.15	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	65.16	J/molxK	102.11	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	66.83	J/molxK	105.16	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	68.54	J/molxK	108.30	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	69.97	J/molxK	111.38	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	71.41	J/molxK	114.40	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	72.83	J/molxK	117.37	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	74.39	J/molxK	120.43	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)

cps	76.05	J/molxK	123.58	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	77.40	J/molxK	126.69	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	78.85	J/molxK	129.75	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	80.21	J/molxK	132.77	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	81.69	J/molxK	135.75	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	82.97	J/molxK	138.82	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	84.37	J/molxK	141.99	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	85.83	J/molxK	145.12	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	87.22	J/molxK	148.21	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	208.40	J/molxK	392.45	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	90.07	J/molxK	154.29	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	91.42	J/molxK	157.29	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)

cps	92.54	J/molxK	160.26	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	93.80	J/molxK	163.32	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	95.36	J/molxK	166.47	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	96.53	J/molxK	169.59	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	97.56	J/molxK	172.69	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	99.17	J/molxK	175.76	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	100.66	J/molxK	178.81	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	101.77	J/molxK	181.83	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	103.74	J/molxK	184.86	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	105.44	J/molxK	188.00	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	107.04	J/molxK	191.24	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	108.11	J/molxK	194.48	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)

cps	110.07	J/molxK	197.71	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	111.83	J/molxK	200.95	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	113.75	J/molxK	204.28	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	115.82	J/molxK	207.71	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	117.36	J/molxK	211.10	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	118.48	J/molxK	214.45	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	119.73	J/molxK	217.75	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	121.46	J/molxK	220.98	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	123.44	J/molxK	224.24	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	125.24	J/molxK	227.37	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	126.78	J/molxK	230.47	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	128.00	J/molxK	233.53	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)

cps	129.18	J/molxK	236.70	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	130.77	J/molxK	239.83	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	132.21	J/molxK	242.82	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	133.33	J/molxK	245.90	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	134.92	J/molxK	249.00	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	136.09	J/molxK	252.08	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	137.55	J/molxK	255.25	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	138.82	J/molxK	258.39	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	140.61	J/molxK	261.52	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	142.67	J/molxK	264.62	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	144.57	J/molxK	267.71	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	146.14	J/molxK	270.79	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)

cps	147.16	J/mol×K	273.84	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	148.40	J/mol×K	276.89	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	149.95	J/mol×K	279.92	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	151.57	J/mol×K	282.94	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	152.95	J/mol×K	286.05	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	154.40	J/mol×K	289.25	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	157.06	J/mol×K	292.39	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	158.97	J/mol×K	295.48	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	161.47	J/mol×K	298.56	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	163.12	J/mol×K	301.64	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	164.66	J/mol×K	304.71	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	165.74	J/mol×K	307.77	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)

cps	167.20	J/molxK	310.83	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	168.75	J/molxK	313.87	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	170.43	J/molxK	316.90	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	172.15	J/molxK	319.93	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	174.56	J/molxK	323.02	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	175.60	J/molxK	326.19	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	177.96	J/molxK	329.34	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	180.37	J/molxK	332.48	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	182.54	J/molxK	335.62	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	183.77	J/molxK	338.77	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	185.05	J/molxK	341.90	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	186.91	J/molxK	345.02	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)

cps	188.46	J/molxK	348.14	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	190.04	J/molxK	351.24	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	191.86	J/molxK	354.33	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	193.40	J/molxK	357.42	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	194.97	J/molxK	360.58	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	195.55	J/molxK	363.80	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	197.03	J/molxK	367.02	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	198.93	J/molxK	370.23	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	200.16	J/molxK	373.42	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	202.18	J/molxK	376.61	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	203.08	J/molxK	379.79	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)
cps	204.62	J/molxK	382.96	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C5H5N3O2)

cps	205.85	J/mol×K	386.12	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C ₅ H ₅ N ₃ O ₂)
cps	207.34	J/mol×K	389.27	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C ₅ H ₅ N ₃ O ₂)
cps	209.36	J/mol×K	395.48	Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C ₅ H ₅ N ₃ O ₂)
hfust	29.20	kJ/mol	237.50	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Thermodynamic Studies of Crystalline 2-Amino-5-nitropyridine (C₅H₅N₃O₂): McGowan Method:	https://www.doi.org/10.1016/j.tca.2007.04.006
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4214760&Units=SI

Legend

cps:	Solid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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