# 1-Ethyl-2-pyrrolidinone

Other names: 1-Ethyl-2-pyrrolidone

1-ethylpyrrolidin-2-one2-Pyrrolidinone, 1-ethyl-

Agsol Ex 2

N-Ethyl-2-pyrrolidone N-Ethylpyrrolidinone N-Ethylpyrrolidone

**NEP** 

InChi=1S/C6H11NO/c1-2-7-5-3-4-6(7)8/h2-5H2,1H3

InchiKey: ZFPGARUNNKGOBB-UHFFFAOYSA-N

Formula: C6H11NO

SMILES: CCN1CCCC1=O

Mol. weight [g/mol]: 113.16 CAS: 2687-91-4

## **Physical Properties**

Property code	Value	Unit	Source
log10ws	-0.57		Crippen Method
logp	0.629		Crippen Method
mcvol	96.090	ml/mol	McGowan Method
ripol	1856.00		NIST Webbook
ripol	1856.00		NIST Webbook

### **Temperature Dependent Properties**

Property code	Value	Unit	Temperature [K]	Source
rfi	1.46461			Influence of Temperature and Composition upon Density, Viscosity, Speed of Sound, and Refractive Index of Aqueous Solutions of Ethyl-2-pyrrolidinor

rfi	1.46192		298.00	Influence of Temperature and Composition upon Density, Viscosity, Speed of Sound, and Refractive Index of Aqueous Solutions of 1-Ethyl-2-pyrrolidinone
rfi	1.45791		303.00	Influence of Temperature and Composition upon Density, Viscosity, Speed of Sound, and Refractive Index of Aqueous Solutions of 1-Ethyl-2-pyrrolidinone
rfi	1.45415		313.00	Influence of Temperature and Composition upon Density, Viscosity, Speed of Sound, and Refractive Index of Aqueous Solutions of 1-Ethyl-2-pyrrolidinone
rfi	1.45147		323.00	Influence of Temperature and Composition upon Density, Viscosity, Speed of Sound, and Refractive Index of Aqueous Solutions of 1-Ethyl-2-pyrrolidinone
rhol	989.14	kg/m3	303.15	Density, Speed of Sound, Viscosity, and Excess Properties of N-Ethyl-2-pyrrolidone + 2-(Methylamino)ethanol [or 2-(Ethylamino)ethanol] from T = (293.15 to 323.15) K
rhol	997.71	kg/m3	293.15	Density, Speed of Sound, Viscosity, and Excess Properties of N-Ethyl-2-pyrrolidone + 2-(Methylamino)ethanol [or 2-(Ethylamino)ethanol] from T = (293.15 to 323.15) K

rhol	980.56	kg/m3	313.15	Density, Speed of Sound, Viscosity, and Excess Properties of N-Ethyl-2-pyrrolidone +
				2-(Methylamino)ethanol [or 2-(Ethylamino)ethanol] from T = (293.15 to 323.15) K
rhol	971.96	kg/m3	323.15	Density, Speed of Sound, Viscosity, and Excess Properties of N-Ethyl-2-pyrrolidone + 2-(Methylamino)ethanol [or 2-(Ethylamino)ethanol] from T = (293.15 to 323.15) K
speedsl	1513.20	m/s	293.15	Density, Speed of Sound, Viscosity, Surface Tension, and Excess Volume of N-Ethyl-2-pyrrolidone + Ethanolamine (or Diethanolamine or Triethanolamine) from T = (293.15 to 323.15) K
speedsl	1475.00	m/s	303.15	Density, Speed of Sound, Viscosity, Surface Tension, and Excess Volume of N-Ethyl-2-pyrrolidone + Ethanolamine (or Diethanolamine or Triethanolamine) from T = (293.15 to 323.15) K

speedsl	1437.60	m/s	313.15	Density, Speed of Sound, Viscosity, Surface Tension, and Excess Volume of N-Ethyl-2-pyrrolidone + Ethanolamine (or Diethanolamine or Triethanolamine) from T = (293.15 to 323.15) K	
speedsl	1400.60	m/s	323.15	Density, Speed of Sound, Viscosity, Surface Tension, and Excess Volume of N-Ethyl-2-pyrrolidone + Ethanolamine (or Diethanolamine or Triethanolamine) from T = (293.15 to 323.15) K	

#### Sources

**High Pressure Phase Behavior of** https://www.doi.org/10.1021/je0301545 Carbon Dioxide +
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Statem Methodor - Diothonolomino or https://www.doi.org/10.1021/je301123j

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https://www.doi.org/10.1021/je500917k

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

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

1-Ethyl-2-pyrrolidinone: Legend

of Aqueous Solutions of

to 323.15) K: Surface Tension of Aqueous Solutions

Composition upon Density, Viscosity, Spiece of Stuffe; and Refractive Index

of Short N-Alkyl-2-pyrrolidinones: Influence of Temperature and

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

rfi: Refractive Index rhol: Liquid Density

ripol: Polar retention indices speedsl: Speed of sound in fluid

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