N-octyl-2-pyrrolidone

Other names: 1-octyl-2-pyrrolidinone

1-octyl-2-pyrrolidone N-octyl-2-pyrrolidinone

InChI=1S/C12H23NO/c1-2-3-4-5-6-7-10-13-11-8-9-12(13)14/h2-11H2,1H3

InchiKey: WPPOGHDFAVQKLN-UHFFFAOYSA-N

Formula: C12H23NO

SMILES: CCCCCCCN1CCCC1=O

Mol. weight [g/mol]: 197.32

Inchi:

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.09		Crippen Method
logp	2.969		Crippen Method
mcvol	180.630	ml/mol	McGowan Method

Temperature Dependent Properties

roperty code	Value	Unit	Temperature [K]	Source
rfi	1.46152		1-buty t N-c f	Excess thermodynamic properties of ionic liquid vl-3-methylimidazoli tetrafluoroborate and octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure

rfi	1.45955	308.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
rfi	1.45761	313.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
rfi	1.45564	318.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
rfi	1.45367	323.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
rfi	1.46346	thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure

rhol	900.17	kg/m3	323.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
rhol	918.45	kg/m3	298.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
rhol	914.80	kg/m3	303.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
rhol	911.14	kg/m3	308.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
rhol	903.83	kg/m3	318.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure

rhol	907.49	kg/m3	313.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
speedsl	1450.18	m/s	298.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
speedsl	1432.64	m/s	303.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
speedsl	1415.26	m/s	308.15 Excess thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
speedsl	1398.02	m/s	thermodynamic properties of ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure

speedsl	1380.92	m/s	Excess thermodynamic properties of ionic liquid utyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure
speedsl	1363.97	m/s	Excess thermodynamic properties of ionic liquid utyl-3-methylimidazolium tetrafluoroborate and N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure

Sources

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

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Excess thermodynamic properties of

ionic liquid M**อGow**anMethyที่didazolium

tetrafluoroborate and

N-octyl-2-pyrrolidone from T = (298.15 to 323.15) K at atmospheric pressure:

https://www.chemeo.com/doc/models/crippen_https://www.doi.org/10.1016/j.jct.2015.06.005

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

Legend

log10ws:Log10 of Water solubility in mol/llogp:Octanol/Water partition coefficientmcvol:McGowan's characteristic volume

rfi: Refractive Index rhol: Liquid Density

speedsl: Speed of sound in fluid

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