# Morpholine, 4-acetyl-

4-acetylmorpholine
N-1-Acetyl morpholine
N-Acetylmorfolin
N-Acetylmorpholine
InChI=1S/C6H11NO2/c1-6(8)7-2-4-9-5-3-7/h2-5H2,1H3
KYWXRBNOYGGPIZ-UHFFFAOYSA-N
C6H11NO2
CC(=O)N1CCOCC1
129.16
1696-20-4

## **Physical Properties**

Property code	Value	Unit	Source
log10ws	0.34		Crippen Method
logp	-0.135		Crippen Method
mcvol	101.960	ml/mol	McGowan Method
rinpol	1133.00		NIST Webbook
rinpol	1133.00		NIST Webbook

## **Temperature Dependent Properties**

Property code	Value	Unit	Temperature [K]	Source
dvisc	0.0039600	Paxs	323.15 (N	Densities, Viscosities and Derived Functions of Binary Mixtures: (Triethylene Glycol Dimethyl Ether + Water) and I-acetylmorpholine Water) from 298.15 to 343.15 K

dvisc	0.0051220	Paxs	313.15	Viscosities and Densities of Binary Mixtures of (N-AcetyImorpholine + Alkanols) from (293.15 to	
dvisc	0.0070520	Paxs	303.15	Viscosities and Densities of Binary Mixtures of (N-Acetylmorpholine + Alkanols) from (293.15 to 323.15) K	
dvisc	0.0085340	Paxs	293.15	Viscosities and Densities of Binary Mixtures of (N-AcetyImorpholine + Alkanols) from (293.15 to 323.15) K	
dvisc	0.0025500	Paxs	343.15	Densities, Viscosities and Derived Functions of Binary Mixtures: (Triethylene Glycol Dimethyl Ether + Water) and (N-acetylmorpholine+ Water) from 298.15 to 343.15 K	
dvisc	0.0031200	Paxs	333.15	Densities, Viscosities and Derived Functions of Binary Mixtures: (Triethylene Glycol Dimethyl Ether + Water) and (N-acetylmorpholine+ Water) from 298.15 to 343.15 K	
dvisc	0.0084800	Paxs	298.15	Densities, Viscosities and Derived Functions of Binary Mixtures: (Triethylene Glycol Dimethyl Ether + Water) and (N-acetylmorpholine+ Water) from 298.15 to 343.15 K	

dvisc	0.0071000	Paxs	303.15	Densities, Viscosities and Derived Functions of Binary Mixtures: (Triethylene Glycol Dimethyl Ether + Water) and (N-acetylmorpholine+ Water) from 298.15 to 343.15 K
dvisc	0.0051800	Paxs	313.15	Densities, Viscosities and Derived Functions of Binary Mixtures: (Triethylene Glycol Dimethyl Ether + Water) and (N-acetylmorpholine+ Water) from 298.15 to 343.15 K
dvisc	0.0038480	Paxs	323.15	Viscosities and Densities of Binary Mixtures of (N-AcetyImorpholine + Alkanols) from (293.15 to 323.15) K
rhol	1071.50	kg/m3	343.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	1080.10	kg/m3	333.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K
rhol	1088.70	kg/m3	323.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K

rhol	1097.30	kg/m3	313.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K	
rhol	1105.90	kg/m3	303.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K	
rhol	1113.80	kg/m3	293.15	Densities and volumetric properties of (N-acetylmorpholine + aromatic hydrocarbon) binary mixtures from T = (293.15 to 343.15) K	

#### **Pressure Dependent Properties**

Property code	Value	Unit	Pressure [kPa]	Source	
tbrp	425.20	K	6.70	NIST Webbook	
tbrp	391.20	K	1.60	NIST Webbook	

#### Sources

Viscosities and Densities of Binary<br/>Mixtures of (N-AcetyImorpholine +<br/>MtKanwian fWath(2003.15 to 323.15) K:https://www.doi.org/10.1021/je8003194<br/>http://link.springer.com/article/10.1007/BF02311772<br/>http://link.springer.com/article/10.1007/BF02311772NIST Webbook:http://webbook.nist.gov/cgi/cbook.cgi?ID=C1696204&Units=SI<br/>http://pubs.acs.org/doi/abs/10.1021/ci990307ICrippen Method:http://pubs.acs.org/doi/abs/10.1021/ci990307ICrippen Method:http://www.chemeo.com/doc/models/crippen\_log10wsDensities and volumetric properties of<br/>(N-acetyImorpholine + aromatic<br/>Presitians/vistonatifesminet/Restricent T =<br/>Figschistes and (N-acetyImorpholine+<br/>Water) and (N-acetyImorpholine+<br/>water) from 298.15 to 343.15 K:

### Legend

dvisc:	Dynamic viscosity
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rhol:	Liquid Density
rinpol:	Non-polar retention indices
tbrp:	Boiling point at reduced pressure

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