# Cyanopyrazine

Other names: 2-Cyanopyrazine

2-Pyrazinecarbonitrile Pyrazine-2-carbonitrile Pyrazinecarbonitrile-

Pyrazinenitrile Pyrazinonitrile

**Inchi:** InChl=1S/C5H3N3/c6-3-5-4-7-1-2-8-5/h1-2,4H

InchiKey: PMSVVUSIPKHUMT-UHFFFAOYSA-N

Formula: C5H3N3 SMILES: N#Cc1cnccn1

**Mol. weight [g/mol]:** 105.10

**CAS**: 19847-12-2

## **Physical Properties**

Property code	Value	Unit	Source
hvap	58.70 ± 1.20	kJ/mol	NIST Webbook
log10ws	-1.36		Crippen Method
logp	0.348		Crippen Method
mcvol	78.890	ml/mol	McGowan Method

## **Temperature Dependent Properties**

Property code Value Unit Temperature [K] Source
rfi 1.53400 293.15 Activity coefficients in binary mixtures formed by cyclohexanone with a variety of compounds at 94.7 kPa

rfi 1.53400 293.15

(Vapor + liquid) equilibrium of binary mixtures formed by N,N-dimethyl formamide with some compounds at 95.1 kPa

#### **Sources**

Activity coefficients in binary mixtures formed by cyclohexanone with a (Marcey of count) count bailon of head water formed by N,N-dimethyl McGawate Wath Some compounds at

**Crippen Method:** 

95.1 kPa: NIST Webbook:

**Crippen Method:** 

https://www.doi.org/10.1016/j.fluid.2005.06.022 https://www.doi.org/10.1016/j.fluid.2007.02.026

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

http://webbook.nist.gov/cgi/cbook.cgi?ID=C19847122&Units=SI

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

https://www.chemeo.com/doc/models/crippen\_log10ws

#### Legend

hvap: Enthalpy of vaporization at standard conditions

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

Refractive Index rfi:

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