1,3-Dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinon

Other names:	1,3-Dimethyl-tetrahydro-2(1H)-pyrimidone
	1,3-Dimethyltetrahydro-2(1H)-pyrimidinone
	1,3-dimethylpropyleneurea
	2(1H)-Pyrimidinone, tetrahydro-1,3-dimethyl-
	2(1H)-pryminidone, 3,4,5,6-tetrahydro-1,3-dimethyl-
	N,N'-Dimethyltrimethyleneurea
	Tetrahydro-1,3-dimethyl-2(1H)pyrimidin-2-onee
	tetrahydro-1,3-dimethyl-1H-pyrimidin-2-one
Inchi:	InChI=1S/C6H12N2O/c1-7-4-3-5-8(2)6(7)9/h3-5H2,1-2H3
InchiKey:	GUVUOGQBMYCBQP-UHFFFAOYSA-N
Formula:	C6H12N2O
SMILES:	CN1CCCN(C)C1=O
Mol. weight [g/mol]:	128.17
CAS:	7226-23-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.12		Crippen Method
logp	0.374		Crippen Method
mcvol	106.070	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source	
rhol	1076.18	kg/m3	278.15 1,3-d	Volume-related interaction parameters for dilute solutions of limethylpropyleneur in normal and heavy water between 278.15 K and 318.15 K	rea

rhol	1067.81	kg/m3	288.15 1	Volume-related interaction parameters for dilute solutions of ,3-dimethylpropyleneurea in normal and heavy water between 278.15 K and 318.15 K	
rhol	1059.46	kg/m3	298.15 1	Volume-related interaction parameters for dilute solutions of ,3-dimethylpropyleneurea in normal and heavy water between 278.15 K and 318.15 K	
rhol	1051.12	kg/m3	308.15 1	Volume-related interaction parameters for dilute solutions of ,3-dimethylpropyleneurea in normal and heavy water between 278.15 K and 318.15 K	
rhol	1046.95	kg/m3	313.15	Volume-related interaction parameters for dilute solutions of ,3-dimethylpropyleneurea in normal and heavy water between 278.15 K and 318.15 K	
rhol	1042.78	kg/m3	318.15	Volume-related interaction parameters for dilute solutions of ,3-dimethylpropyleneurea in normal and heavy water between 278.15 K and 318.15 K	
rhol	1065.00	kg/m3	293.15	Investigation of the Solubilities of Carbon Dioxide in Some Low Volatile Solvents and Their Thermodynamic Properties	

Sources

Volume-related interaction parameters https://www.doi.org/10.1016/j.tca.2010.11.002 Properties: NIST Webbook:

Crippen Method:

Crippen Method:

Solubility and thermodynamic properties of SO2 in three low volatile urea derivatives:

Legend

for dilute solutions of Extramotion parameters https://www.doi.org/10.1016/j.tca.2011.05.019 ind/Acisotraically disting visit ablk and any state bound in the solution parameters https://www.doi.org/10.1016/j.tca.2011.05.019 ind/Acisotraically disting visit ablk and any state bound in the solution parameters https://www.doi.org/10.1016/j.tca.2011.05.019 https://www.doi.org/10.1021/acs.jced.5b00893 http://link.springer.com/article/10.1007/BF0231 http://link.springer.com/article/10.1007/BF02311772 http://webbook.nist.gov/cgi/cbook.cgi?ID=C7226235&Units=SI http://pubs.acs.org/doi/abs/10.1021/ci990307I https://www.chemeo.com/doc/models/crippen_log10ws https://www.doi.org/10.1016/j.jct.2016.05.004

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

Latest version available from:

https://www.chemeo.com/cid/98-481-0/1-3-Dimethyl-3-4-5-6-tetrahydro-2-1H-pyrimidinone.pdf Generated by Cheméo on 2024-04-29 07:46:29.619713094 +0000 UTC m=+16666038.540290416. Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.