# 1,5-Diazabicyclo[4.3.0]non-5-ene

Other names:	1,5-diazobicyclo[4.3.0]non-5-ene
	2,3,4,6,7,8-hexahydropyrrolo[1,2-a]pyrimidine
	Pyrrolo[1,2-a]pyrimidine, 2,3,4,6,7,8-hexahydro-
Inchi:	InChI=1S/C7H12N2/c1-3-7-8-4-2-6-9(7)5-1/h1-6H2
InchiKey:	SGUVLZREKBPKCE-UHFFFAOYSA-N
Formula:	C7H12N2
SMILES:	C1CN=C2CCCN2C1
Mol. weight [g/mol]:	124.18
CAS:	3001-72-7

## **Physical Properties**

Property code	Value	Unit	Source
affp	1038.30	kJ/mol	NIST Webbook
basg	1005.90	kJ/mol	NIST Webbook
log10ws	-0.77		Crippen Method
logp	0.884		Crippen Method
mcvol	103.430	ml/mol	McGowan Method

## **Pressure Dependent Properties**

Property code	Value	Unit	Pressure [kPa]	Source
tbp	358.84	К	0.71	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling
tbp	364.01	K	0.91	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling

tbp	364.61	К	0.92	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	371.35	К	1.39	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	372.05	К	1.41	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	379.14	К	1.87	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	387.20	К	2.81	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	387.81	К	2.86	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	390.96	К	3.37	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	

tbp	393.33	К	3.88	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	400.15	К	5.11	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	402.06	К	5.53	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	404.85	К	6.11	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	407.93	К	7.15	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	412.15	К	8.11	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	415.55	К	9.40	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	

tbp	417.65	K	10.12	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbp	422.75	К	12.14	Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN and water + DBU systems for cellulose solvent recycling	
tbrp	369.70	K	1.00	NIST Webbook	

#### Sources

**Crippen Method:** 

**Crippen Method:** 

Dew points of pure DBN and DBU and vapor-liquid equilibria of water + DBN MCOWMEN #DBOGsystems for cellulose solvent recycling: NIST Webbook:

http://pubs.acs.org/doi/abs/10.1021/ci990307I https://www.chemeo.com/doc/models/crippen\_log10ws https://www.doi.org/10.1016/j.fluid.2015.08.008 http://link.springer.com/article/10.1007/BF02311772 http://webbook.nist.gov/cgi/cbook.cgi?ID=C3001727&Units=SI

#### Legend

affp:	Proton affinity
basg:	Gas basicity
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tbp:	Boiling point at given pressure
tbrp:	Boiling point at reduced pressure

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