

2,4-Dihydroxy-5,6-dimethylpyrimidine

Other names:	2,4(1H,3H)-Pyrimidinedione, 5,6-dimethyl- 4,5-Dimethyluracil 5,6-dimethyluracil Uracil, 5,6-dimethyl-
Inchi:	InChI=1S/C6H8N2O2/c1-3-4(2)7-6(10)8-5(3)9/h1-2H3,(H2,7,8,9,10)
InchiKey:	PZVLJGKJIMBYNP-UHFFFAOYSA-N
Formula:	C6H8N2O2
SMILES:	Cc1[nH]c(=O)[nH]c(=O)c1C
Mol. weight [g/mol]:	140.14
CAS:	26305-13-5

Physical Properties

Property code	Value	Unit	Source
log10ws	0.29		Crippen Method
logp	-1.284		Crippen Method
mcvol	103.340	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	191.10	J/molxK	298.15	Heat Capacities of Uracil, Thymine, and Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry
cps	198.30	J/molxK	303.15	Heat Capacities of Uracil, Thymine, and Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry

cps	203.20	J/molxK	308.15	Heat Capacities of Uracil, Thymine, and Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry
cps	208.00	J/molxK	313.15	Heat Capacities of Uracil, Thymine, and Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry
cps	212.00	J/molxK	318.15	Heat Capacities of Uracil, Thymine, and Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry
cps	215.60	J/molxK	323.15	Heat Capacities of Uracil, Thymine, and Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry
cps	219.10	J/molxK	328.15	Heat Capacities of Uracil, Thymine, and Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry
cps	223.30	J/molxK	333.15	Heat Capacities of Uracil, Thymine, and Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry
cps	229.30	J/molxK	338.15	Heat Capacities of Uracil, Thymine, and Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry

cps

234.10

J/mol×K

343.15

Heat Capacities
of Uracil,
Thymine, and Its
Alkylated,
Cyclooligomethylenated,
and Halogenated
Derivatives by
Differential
Calorimetry

Sources

Crippen Method:

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

**Heat Capacities of Uracil, Thymine, and
Its Alkylated, Cyclooligomethylenated,
and Halogenated Derivatives by
Differential Calorimetry:**
NIST Webbook:

<https://www.doi.org/10.1021/je060257y>

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

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C26305135&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307i>

Legend

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

Latest version available from:

<https://www.chemeo.com/cid/38-445-6/2-4-Dihydroxy-5-6-dimethylpyrimidine.pdf>

Generated by Cheméo on 2024-05-04 19:03:27.785287545 +0000 UTC m=+17138656.705864882.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.