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/mol×K	298.15 Cy	Heat Capacities of Uracil, Thymine, and Its Alkylated, clooligomethylenate and Halogenated Derivatives by Differential Calorimetry
cps	198.30	J/mol×K	303.15 Cy	Heat Capacities of Uracil, Thymine, and Its Alkylated, clooligomethylenate and Halogenated Derivatives by Differential Calorimetry

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

Heat Capacities of Uracil, Thymine, and	https://www.doi.org/10.1021/je060257y		
Alkylated, Cyclooligomethylenated,	http://link.springer.com/article/10.1007/BF02311772		
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C26305135&Units=SI		
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l		
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws		

Legend

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

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