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-

InChl=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, yclooligomethylenate and Halogenated Derivatives by Differential Calorimetry
cps	198.30	J/mol×K	303.15 Cy	Heat Capacities of Uracil, Thymine, and Its Alkylated, yclooligomethylenate 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/molxK 343.15 Heat Capacities of Uracil,

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

Calorimetry

Sources

McGowan Method: 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

Heat Capacities of Uracil, Thymine, and https://www.doi.org/10.1021/je060257y Its Alkylated, Cyclooligomethylenated, and Halogenated Derivatives by Differential Calorimetry:

Legend

cps: Solid phase heat capacity

log10ws: Log10 of Water solubility in mol/llogp: Octanol/Water partition coefficientmcvol: McGowan's characteristic volume

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