Methylthiouracil

Other names: 2,3-Dihydro-6-methyl-2-thioxo-4(1H)-pyrimidinone

2-Mercapto-4-hydroxy-6-methylpyrimidine

2-Mercapto-6-methyl-4-pyrimidinol

2-Mercapto-6-methyl-4-pyrimidone

2-Mercapto-6-methylpyrimid-4-one

2-Thio-4-oxo-6-methyl-1,3-pyrimidine

2-Thio-6-methyl-1,3-pyrimidin-4-one

2-Thio-6-methyluracil

2-Thiouracil, 6-methyl-

4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-

4-Hydroxy-2-mercapto-6-methylpyrimidine

4-Hydroxy-6-methyl-2-thiopyrimidine

4-Methyl-2-thiouracil

6-Methyl-2-mercaptouracil

6-Methyl-2-thio-2,4(1H,3H)-pyrimidinedione

6-Methyl-2-thiouracil

6-Methyl-2-thiouracyl

6-Methyl-4-oxo-2-thioxo-1,2,3,4-tetrahydropyrimidine

6-Methylthiouracil

6-Metil-tiouracile

6-Thio-4-methyluracil

Alkiron

Basecil

Basethyrin

MTU

Metacil

Methacil

Methiacil

Methicil

Methiocil

Metiur

Muracil

Muracin

NSC 193526

NSC 9378

Orcanon

Prostrumyl

RCRA Waste number U164

Strumacil

Thimecil

Thiomecil Thiomidil

Thioryl

Thiothymin Thiothyron

Thiuryl

Thyreonorm
Thyreostat
Thyreostat I

Thyril

Tiomeracil Tiorale M Tiotiron

USAF EK-6454

Uracil, 6-methyl-2-thio-

antiBason

InChl=1S/C5H6N2OS/c1-3-2-4(8)7-5(9)6-3/h2H,1H3,(H2,6,7,8,9)

InchiKey: HWGBHCRJGXAGEU-UHFFFAOYSA-N

Formula: C5H6N2OS

SMILES: Cc1cc(O)nc(S)n1

Mol. weight [g/mol]: 142.18 CAS: 56-04-2

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.54		Crippen Method
logp	0.779		Crippen Method
mcvol	99.730	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
psub	1.06e-04	kPa		Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil

psub	1.24e-04	kPa	423.15	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	1.36e-04	kPa	425.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	1.82e-04	kPa	427.16	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	2.15e-04	kPa	429.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	2.47e-04	kPa	431.19	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	2.47e-04	kPa	431.16	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	2.91e-04	kPa	433.20	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	3.42e-04	kPa	435.22	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil

psub	4.05e-04	kPa	437.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil
				and 6-methyl-2-thiouracil
psub	4.69e-04	kPa	439.22	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	5.62e-04	kPa	441.23	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	4.18e-04	kPa	437.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	5.28e-04	kPa	439.20	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	6.92e-04	kPa	443.16	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	8.13e-04	kPa	445.21	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	9.50e-04	kPa	447.24	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	6.89e-04	kPa	443.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil

Psub 9.52e-04 RPa 447.24 Experimental study on the thermochemistry of 2+thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil					
Psub 1.24e-04 RPa 423.15 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil and 6-methyl-2-thiouracil Psub 1.45e-04 RPa 425.17 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil Psub 1.62e-04 RPa 427.16 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil Psub 2.14e-04 RPa 429.17 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil Psub 2.53e-04 RPa 431.19 Experimental study on the thermochemistry of 2-thiouracil Psub 2.89e-04 RPa 433.20 Experimental study on the thermochemistry of 2-thiouracil Psub 2.89e-04 RPa 433.20 Experimental study on the thermochemistry of 2-thiouracil Psub 3.42e-04 RPa 435.22 Experimental study on the thermochemistry of 2-thiouracil Psub 3.42e-04 RPa 435.22 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil Psub 3.42e-04 RPa 435.22 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5-met	psub	9.52e-04	kPa	447.24	study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and
psub 1.45e-04 kPa 425.17 Experimental study on the thermochemistry of 2-thiouracil. 5-methyl-2-thiouracil and 6-methyl-2-thiouracil study on the thermochemistry of 2-thiouracil. 5-methyl-2-thiouracil. 5-met	psub	1.24e-04	kPa	423.15	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and
study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil psub 2.14e-04 kPa 429.17 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil psub 2.53e-04 kPa 431.19 Experimental study on the thermochemistry of 2-thiouracil psub 2.89e-04 kPa 433.20 Experimental study on the thermochemistry of 2-thiouracil psub 3.42e-04 kPa 435.22 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil psub 3.42e-04 kPa 435.22 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil psub 3.42e-04 kPa 435.22 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil psub 3.42e-04 kPa 435.22 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5-meth	psub	1.45e-04	kPa	425.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and
study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil and 6-methyl-2-thiouracil psub 2.53e-04 kPa 431.19 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, and 6-methyl-2-thiouracil and 6-methyl-2-thiouracil psub 2.89e-04 kPa 433.20 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5	psub	1.62e-04	kPa	427.16	study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and
study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil psub 2.89e-04 kPa 433.20 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil psub 3.42e-04 kPa 435.22 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil and	psub	2.14e-04	kPa	429.17	study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and
study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil psub 3.42e-04 kPa 435.22 Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil, 5-methyl-2-thiouracil, and	psub	2.53e-04	kPa	431.19	study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and
study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil	psub	2.89e-04	kPa	433.20	study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and
· · · · · · · · · · · · · · · · · · ·	psub	3.42e-04	kPa	435.22	study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and

psub	3.98e-04	kPa	437.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	4.78e-04	kPa	439.22	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	5.64e-04	kPa	441.23	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	4.97e-04	kPa	439.20	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	5.89e-04	kPa	441.23	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	8.06e-04	kPa	445.21	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	9.41e-04	kPa	447.24	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	7.98e-04	kPa	445.20	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	9.49e-04	kPa	447.24	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil

psub	9.78e-05	kPa	421.16	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	1.20e-04	kPa	423.15	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	1.41e-04	kPa	425.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	1.71e-04	kPa	427.16	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	2.00e-04	kPa	429.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	2.43e-04	kPa	431.19	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	2.30e-04	kPa	431.16	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	2.71e-04	kPa	433.20	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil

psub	3.33e-04	kPa	435.22	Experimental
paun	J.JJG-U4	κτα	400.22	study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	3.85e-04	kPa	437.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	4.52e-04	kPa	439.22	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	5.43e-04	kPa	441.23	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	4.05e-04	kPa	437.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	4.80e-04	kPa	439.20	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	5.73e-04	kPa	441.23	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	6.45e-04	kPa	443.16	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	7.57e-04	kPa	445.21	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil

psub	9.09e-04	kPa	447.24	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	6.57e-04	kPa	443.17	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	7.79e-04	kPa	445.20	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil
psub	9.23e-04	kPa	447.24	Experimental study on the thermochemistry of 2-thiouracil, 5-methyl-2-thiouracil and 6-methyl-2-thiouracil

Sources

Crippen Method:

Experimental study on the thermochemistry of 2-thiouracil, squeith in the state of 2-thiouracil, squeith in the state of t

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

https://www.doi.org/10.1016/j.jct.2012.08.004 https://www.doi.org/10.1016/j.jct.2018.02.002

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

http://webbook.nist.gov/cgi/cbook.cgi?ID=C56042&Units=SI

http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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

psub: Sublimation pressure

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