

# Uramil

<b>Other names:</b>	5-aminobarbituric acid
<b>Inchi:</b>	InChI=1S/C4H5N3O3/c5-1-2(8)6-4(10)7-3(1)9/h1H,5H2,(H2,6,7,8,9,10)
<b>InchiKey:</b>	PSQZLWHRJMYZHD-UHFFFAOYSA-N
<b>Formula:</b>	C4H5N3O3
<b>SMILES:</b>	NC1C(=O)NC(=O)NC1=O
<b>Mol. weight [g/mol]:</b>	143.10
<b>CAS:</b>	118-78-5

## Physical Properties

Property code	Value	Unit	Source
gf	-118.65	kJ/mol	Joback Method
hf	-375.26	kJ/mol	Joback Method
hfus	20.86	kJ/mol	Joback Method
hvap	61.83	kJ/mol	Joback Method
log10ws	0.38		Crippen Method
logp	-2.320		Crippen Method
mcvol	91.010	ml/mol	McGowan Method
pc	7121.37	kPa	Joback Method
tb	683.56	K	Joback Method
tc	969.98	K	Joback Method
tf	640.20	K	Joback Method
vc	0.317	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.84	J/mol×K	683.56	Joback Method
cpg	259.76	J/mol×K	731.30	Joback Method
cpg	271.64	J/mol×K	779.03	Joback Method
cpg	282.26	J/mol×K	826.77	Joback Method
cpg	291.38	J/mol×K	874.51	Joback Method
cpg	298.78	J/mol×K	922.24	Joback Method
cpg	304.24	J/mol×K	969.98	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C118785&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C118785&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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