

# Methallatal

<b>Other names:</b>	5-Ethyl-5-(2-methylallyl)-2-thiobarbituric acid 4,6(1H,5H)-Pyrimidinedione, 5-ethyl-5-(2-methyl-2-propenyl)-2-thio- Barbituric acid, 5-ethyl-5-(2-methylallyl)-2-thio- Mosidal V 12 5-Ethyl-5-(2-methyl-2-propenyl)-2-thio-4,6(1H,5H)-pyrimidinedione 5-Ethyl-5-(2-methyl-2-propenyl)-2-thioxodihydro-4,6(1H,5H)-pyrimidinedione 5-ethyl-5-(2-methylallyl)-2-thio-1H,5H-pyrimidine-4,6-dione
<b>Inchi:</b>	InChI=1S/C10H14N2O2S/c1-4-10(5-6(2)3)7(13)11-9(15)12-8(10)14/h2,4-5H2,1,3H3,(H2
<b>InchiKey:</b>	XMQICEWOKPEQRG-UHFFFAOYSA-N
<b>Formula:</b>	C10H14N2O2S
<b>SMILES:</b>	C=C(C)CC1(CC)C(=O)NC(=S)NC1=O
<b>Mol. weight [g/mol]:</b>	226.29
<b>CAS:</b>	115-56-0

## Physical Properties

Property code	Value	Unit	Source
gf	152.66	kJ/mol	Joback Method
hf	-149.21	kJ/mol	Joback Method
hfus	28.84	kJ/mol	Joback Method
hvap	66.03	kJ/mol	Joback Method
log10ws	-2.79		Crippen Method
logp	0.880		Crippen Method
mcvol	171.750	ml/mol	McGowan Method
pc	3472.45	kPa	Joback Method
rinpol	1736.00		NIST Webbook
tb	749.93	K	Joback Method
tc	1015.84	K	Joback Method
tf	628.19	K	Joback Method
vc	0.634	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	468.10	J/mol×K	749.93	Joback Method
cpg	484.05	J/mol×K	794.25	Joback Method
cpg	499.36	J/mol×K	838.57	Joback Method
cpg	514.13	J/mol×K	882.88	Joback Method
cpg	528.46	J/mol×K	927.20	Joback Method
cpg	542.46	J/mol×K	971.52	Joback Method
cpg	556.23	J/mol×K	1015.84	Joback Method

## Sources

<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=C115560&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C115560&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>rinpol:</b>	Non-polar retention indices
<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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