

# 5-methyl-5-propyl-1,3-diazinane-2,4,6-trione

<b>Inchi:</b>	InChI=1S/C8H12N2O3/c1-3-4-8(2)5(11)9-7(13)10-6(8)12/h3-4H2,1-2H3,(H2,9,10,11,12,13)
<b>InchiKey:</b>	KWEHOVAGMBSHNZ-UHFFFAOYSA-N
<b>Formula:</b>	C8H12N2O3
<b>SMILES:</b>	CCCC1(C)C(=O)NC(=O)NC1=O
<b>Mol. weight [g/mol]:</b>	184.20

## Physical Properties

Property code	Value	Unit	Source
gf	-156.91	kJ/mol	Joback Method
hf	-476.37	kJ/mol	Joback Method
hfus	19.72	kJ/mol	Joback Method
hvap	58.94	kJ/mol	Joback Method
log10ws	-1.49		Aqueous and cosolvent solubility data for drug-like organic compounds
logp	0.159		Crippen Method
mcvol	137.390	ml/mol	McGowan Method
pc	4000.70	kPa	Joback Method
tb	702.79	K	Joback Method
tc	967.84	K	Joback Method
tf	625.92	K	Joback Method
vc	0.509	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	387.82	J/mol×K	702.79	Joback Method
cpg	404.44	J/mol×K	746.96	Joback Method
cpg	420.27	J/mol×K	791.14	Joback Method
cpg	435.31	J/mol×K	835.31	Joback Method
cpg	449.56	J/mol×K	879.49	Joback Method
cpg	462.99	J/mol×K	923.66	Joback Method
cpg	475.62	J/mol×K	967.84	Joback Method

# Sources

<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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous and cosolvent solubility data for drug-like organic compounds:</b>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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