

# 1,3,5-Dithiazine, perhydro-4-methyl-2,6-bis-(1-methylethyl)

Other names:	5,6-Dihydro-4-methyl-2,6-diisopropyl-4H-1,3,5-dithiazine
Inchi:	InChI=1S/C10H21NS2/c1-6(2)9-11-8(5)12-10(13-9)7(3)4/h6-11H,1-5H3
InchiKey:	VDCMBNABIUZUMB-UHFFFAOYSA-N
Formula:	C10H21NS2
SMILES:	CC1NC(C(C)C)SC(C(C)C)S1
Mol. weight [g/mol]:	219.41

## Physical Properties

Property code	Value	Unit	Source
gf	204.90	kJ/mol	Joback Method
hf	-118.32	kJ/mol	Joback Method
hfus	25.49	kJ/mol	Joback Method
hvap	55.27	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	3.366		Crippen Method
mcpvol	183.580	ml/mol	McGowan Method
pc	2475.19	kPa	Joback Method
rinpol	1492.00		NIST Webbook
rinpol	1490.00		NIST Webbook
rinpol	1490.00		NIST Webbook
tb	581.74	K	Joback Method
tc	818.59	K	Joback Method
tf	443.29	K	Joback Method
vc	0.643	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	456.75	J/molxK	581.74	Joback Method
cpg	477.63	J/molxK	621.22	Joback Method
cpg	497.30	J/molxK	660.69	Joback Method
cpg	515.77	J/molxK	700.17	Joback Method
cpg	533.05	J/molxK	739.64	Joback Method
cpg	549.17	J/molxK	779.12	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=R62275&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R62275&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>mccvol:</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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