

# 1,3,5-Dithiazine, 4-butyl-2-methyl-6-pentyl

<b>Inchi:</b>	InChI=1S/C13H27NS2/c1-4-6-8-10-13-14-12(9-7-5-2)15-11(3)16-13/h11-14H,4-10H2,1-3
<b>InchiKey:</b>	YSHOAYUYWBSGHO-UHFFFAOYSA-N
<b>Formula:</b>	C13H27NS2
<b>SMILES:</b>	CCCCC1NC(CCCC)SC(C)S1
<b>Mol. weight [g/mol]:</b>	261.49

## Physical Properties

Property code	Value	Unit	Source
gf	235.04	kJ/mol	Joback Method
hf	-169.68	kJ/mol	Joback Method
hfus	40.31	kJ/mol	Joback Method
hvap	62.72	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	4.825		Crippen Method
mcvol	225.850	ml/mol	McGowan Method
pc	1867.55	kPa	Joback Method
rinpol	1849.00		NIST Webbook
rinpol	1849.00		NIST Webbook
tb	651.26	K	Joback Method
tc	866.00	K	Joback Method
tf	507.10	K	Joback Method
vc	0.824	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	614.88	J/mol×K	651.26	Joback Method
cpg	635.96	J/mol×K	687.05	Joback Method
cpg	655.86	J/mol×K	722.84	Joback Method
cpg	674.59	J/mol×K	758.63	Joback Method
cpg	692.19	J/mol×K	794.42	Joback Method
cpg	708.67	J/mol×K	830.21	Joback Method
cpg	724.05	J/mol×K	866.00	Joback Method

# Sources

<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>
<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=R54474&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R54474&amp;Units=SI</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>hvp:</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>rinp:</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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