

# 5,5-diethyl-2-sulfanylidene-1,3-diazinane-4,6-dione

<b>Inchi:</b>	InChI=1S/C8H12N2O2S/c1-3-8(4-2)5(11)9-7(13)10-6(8)12/h3-4H2,1-2H3,(H2,9,10,11,12)
<b>InchiKey:</b>	QGVNJRROSLYGKF-UHFFFAOYSA-N
<b>Formula:</b>	C8H12N2O2S
<b>SMILES:</b>	CCC1(CC)C(=O)NC(=S)NC1=O
<b>Mol. weight [g/mol]:</b>	200.26

## Physical Properties

Property code	Value	Unit	Source
gf	56.53	kJ/mol	Joback Method
hf	-223.57	kJ/mol	Joback Method
hfus	26.25	kJ/mol	Joback Method
hvap	62.17	kJ/mol	Joback Method
log10ws	-2.32		Aqueous Solubility Prediction Method
logp	0.324		Crippen Method
mcvol	147.870	ml/mol	McGowan Method
pc	4151.61	kPa	Joback Method
tb	707.61	K	Joback Method
tc	976.26	K	Joback Method
tf	621.37	K	Joback Method
vc	0.540	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	388.29	J/molxK	707.61	Joback Method
cpg	403.21	J/molxK	752.39	Joback Method
cpg	417.51	J/molxK	797.16	Joback Method
cpg	431.28	J/molxK	841.94	Joback Method
cpg	444.61	J/molxK	886.71	Joback Method
cpg	457.58	J/molxK	931.49	Joback Method
cpg	470.28	J/molxK	976.26	Joback Method

# Sources

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307I>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## 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

Latest version available from:

<https://www.cheméo.com/cid/104-816-0/5-5-diethyl-2-sulfanylidene-1-3-diazinane-4-6-dione.pdf>

Generated by Cheméo on 2024-04-28 10:44:42.294467529 +0000 UTC m=+16590331.215044845.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.