

# Mercaptosuccindihydrazide

<b>Inchi:</b>	InChI=1S/C4H10N4O2S/c5-7-3(9)1-2(11)4(10)8-6/h2,11H,1,5-6H2,(H,7,9)(H,8,10)
<b>InchiKey:</b>	RRRPKRWDEPHRSD-UHFFFAOYSA-N
<b>Formula:</b>	C4H10N4O2S
<b>SMILES:</b>	NNC(=O)CC(S)C(=O)NN
<b>Mol. weight [g/mol]:</b>	178.21
<b>CAS:</b>	687-57-0

## Physical Properties

Property code	Value	Unit	Source
gf	63.59	kJ/mol	Joback Method
hf	-143.33	kJ/mol	Joback Method
hfus	30.43	kJ/mol	Joback Method
hvap	78.49	kJ/mol	Joback Method
log10ws	-0.46		Crippen Method
logp	-2.345		Crippen Method
mcvol	126.630	ml/mol	McGowan Method
pc	6259.01	kPa	Joback Method
tb	706.48	K	Joback Method
tc	943.30	K	Joback Method
tf	528.00	K	Joback Method
vc	0.448	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.65	J/molxK	706.48	Joback Method
cpg	336.97	J/molxK	745.95	Joback Method
cpg	344.61	J/molxK	785.42	Joback Method
cpg	351.60	J/molxK	824.89	Joback Method
cpg	357.96	J/molxK	864.36	Joback Method
cpg	363.71	J/molxK	903.83	Joback Method
cpg	368.89	J/molxK	943.30	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>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=C687570&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C687570&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>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>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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