

# N,n'-bis(s-acetylmercaptosuccinic acid) hydrazine

<b>Inchi:</b>	InChI=1S/C12H16N2O8S2/c1-5(15)23-7(11(19)20)3-9(17)13-14-10(18)4-8(12(21)22)24-
<b>InchiKey:</b>	VWPKDMBFEGDPTO-UHFFFAOYSA-N
<b>Formula:</b>	C12H16N2O8S2
<b>SMILES:</b>	CC(=O)SC(CC(=O)NNC(=O)CC(SC(C)=O)C(=O)O)C(=O)O
<b>Mol. weight [g/mol]:</b>	380.39

## Physical Properties

Property code	Value	Unit	Source
gf	-756.86	kJ/mol	Joback Method
hf	-1090.83	kJ/mol	Joback Method
hfus	56.02	kJ/mol	Joback Method
hvap	141.87	kJ/mol	Joback Method
log10ws	-1.51		Crippen Method
logp	-0.620		Crippen Method
mcvol	253.760	ml/mol	McGowan Method
pc	3333.53	kPa	Joback Method
tb	1218.56	K	Joback Method
tc	1502.29	K	Joback Method
tf	790.34	K	Joback Method
vc	0.948	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	758.16	J/molxK	1218.56	Joback Method
cpg	757.69	J/molxK	1265.85	Joback Method
cpg	755.59	J/molxK	1313.14	Joback Method
cpg	751.88	J/molxK	1360.42	Joback Method
cpg	746.62	J/molxK	1407.71	Joback Method
cpg	739.83	J/molxK	1455.00	Joback Method
cpg	731.57	J/molxK	1502.29	Joback Method

# Sources

<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=B6004567&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6004567&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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

Latest version available from:

<https://www.chemeo.com/cid/41-327-3/N-n-bis-s-acetylmercaptosuccinic-acid-hydrazine.pdf>

Generated by Cheméo on 2024-05-02 02:27:53.884161346 +0000 UTC m=+16906122.804738658.

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