

# N,n'-bis(chloroacetyl) hydrazine

<b>Inchi:</b>	InChI=1S/C4H6Cl2N2O2/c5-1-3(9)7-8-4(10)2-6/h1-2H2,(H,7,9)(H,8,10)
<b>InchiKey:</b>	XKMYELXNRJUWPB-UHFFFAOYSA-N
<b>Formula:</b>	C4H6Cl2N2O2
<b>SMILES:</b>	O=C(CCl)NNC(=O)CCl
<b>Mol. weight [g/mol]:</b>	185.01
<b>CAS:</b>	89124-06-1

## Physical Properties

Property code	Value	Unit	Source
gf	-120.12	kJ/mol	Joback Method
hf	-275.59	kJ/mol	Joback Method
hfus	27.91	kJ/mol	Joback Method
hvap	59.63	kJ/mol	Joback Method
log10ws	-0.72		Crippen Method
logp	-0.389		Crippen Method
mcvol	114.800	ml/mol	McGowan Method
pc	4305.56	kPa	Joback Method
tb	573.86	K	Joback Method
tc	782.40	K	Joback Method
tf	399.86	K	Joback Method
vc	0.440	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	234.59	J/molxK	573.86	Joback Method
cpg	241.74	J/molxK	608.62	Joback Method
cpg	248.43	J/molxK	643.37	Joback Method
cpg	254.68	J/molxK	678.13	Joback Method
cpg	260.51	J/molxK	712.89	Joback Method
cpg	265.91	J/molxK	747.65	Joback Method
cpg	270.92	J/molxK	782.40	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=C89124061&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C89124061&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>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

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