

# 2,4-Dichlorobenzhydrazide

<b>Inchi:</b>	InChI=1S/C7H6Cl2N2O/c8-4-1-2-5(6(9)3-4)7(12)11-10/h1-3H,10H2,(H,11,12)
<b>InchiKey:</b>	QOJQHOGSXXXSMKX-UHFFFAOYSA-N
<b>Formula:</b>	C7H6Cl2N2O
<b>SMILES:</b>	NNC(=O)c1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	205.04
<b>CAS:</b>	5814-06-2

## Physical Properties

Property code	Value	Unit	Source
gf	104.27	kJ/mol	Joback Method
hf	-31.02	kJ/mol	Joback Method
hfus	27.44	kJ/mol	Joback Method
hvap	67.37	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	1.597		Crippen Method
mcvol	131.740	ml/mol	McGowan Method
pc	4271.86	kPa	Joback Method
tb	647.63	K	Joback Method
tc	892.69	K	Joback Method
tf	465.80	K	Joback Method
vc	0.487	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.54	J/molxK	647.63	Joback Method
cpg	290.01	J/molxK	688.47	Joback Method
cpg	297.79	J/molxK	729.32	Joback Method
cpg	304.92	J/molxK	770.16	Joback Method
cpg	311.42	J/molxK	811.00	Joback Method
cpg	317.33	J/molxK	851.85	Joback Method
cpg	322.67	J/molxK	892.69	Joback Method

# Sources

<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=C5814062&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5814062&amp;Units=SI</a>
<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>

# 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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