

# Butanedioyl dihydrazide

<b>Other names:</b>	Succinic acid dihydrazide Succinic dihydrazide Succinic hydrazide Butanedioic acid, dihydrazide Succinhydrazide Succinic acid hydrazide Succinyl dihydrazide 377 succinohydrazide
<b>Inchi:</b>	InChI=1S/C4H10N4O2/c5-7-3(9)1-2-4(10)8-6/h1-2,5-6H2,(H,7,9)(H,8,10)
<b>InchiKey:</b>	HCOMFAYPHBFMKU-UHFFFAOYSA-N
<b>Formula:</b>	C4H10N4O2
<b>SMILES:</b>	NNC(=O)CCC(=O)NN
<b>Mol. weight [g/mol]:</b>	146.15
<b>CAS:</b>	4146-43-4

## Physical Properties

Property code	Value	Unit	Source
chs	-2638.30 ± 0.46	kJ/mol	NIST Webbook
chs	-2636.50 ± 0.46	kJ/mol	NIST Webbook
gf	36.64	kJ/mol	Joback Method
hf	-176.53	kJ/mol	Joback Method
hfus	29.91	kJ/mol	Joback Method
hvap	72.14	kJ/mol	Joback Method
log10ws	-0.27		Crippen Method
logp	-2.254		Crippen Method
mvol	110.280	ml/mol	McGowan Method
pc	5602.57	kPa	Joback Method
tb	644.06	K	Joback Method
tc	860.31	K	Joback Method
tf	506.54	K	Joback Method
vc	0.400	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.72	J/mol×K	644.06	Joback Method
cpg	297.16	J/mol×K	680.10	Joback Method
cpg	305.03	J/mol×K	716.14	Joback Method
cpg	312.36	J/mol×K	752.19	Joback Method
cpg	319.16	J/mol×K	788.23	Joback Method
cpg	325.46	J/mol×K	824.27	Joback Method
cpg	331.26	J/mol×K	860.31	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=C4146434&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4146434&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>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>hvac:</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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