

# Formic acid, 2-phenylhydrazide

<b>Other names:</b>	Hydrazine, 1-formyl-2-phenyl- Hydrazinecarboxaldehyde, 2-phenyl- N'-Formyl-N-phenylhydrazine 1-Formyl-2-phenylhydrazine Fenylhydrazid kyseliny mravenci N-Formylfenylhydrazin 2-Formyl-1-phenylhydrazine NSC 122444 NSC 406126
<b>Inchi:</b>	InChI=1S/C7H8N2O/c10-6-8-9-7-4-2-1-3-5-7/h1-6,9H,(H,8,10)
<b>InchiKey:</b>	QIWOKEQEGOOGGH-UHFFFAOYSA-N
<b>Formula:</b>	C7H8N2O
<b>SMILES:</b>	O=CNc1ccccc1
<b>Mol. weight [g/mol]:</b>	136.15
<b>CAS:</b>	622-84-4

## Physical Properties

Property code	Value	Unit	Source
gf	199.73	kJ/mol	Joback Method
hf	70.08	kJ/mol	Joback Method
hfus	20.41	kJ/mol	Joback Method
hvap	53.04	kJ/mol	Joback Method
log10ws	-1.44		Crippen Method
logp	0.760		Crippen Method
mcvol	107.260	ml/mol	McGowan Method
pc	4697.74	kPa	Joback Method
tb	535.24	K	Joback Method
tc	756.30	K	Joback Method
tf	342.39	K	Joback Method
vc	0.406	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	236.07	J/mol×K	535.24	Joback Method
cpg	246.91	J/mol×K	572.08	Joback Method
cpg	257.00	J/mol×K	608.93	Joback Method
cpg	266.36	J/mol×K	645.77	Joback Method
cpg	275.04	J/mol×K	682.61	Joback Method
cpg	283.06	J/mol×K	719.46	Joback Method
cpg	290.47	J/mol×K	756.30	Joback Method

## Sources

<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=C622844&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C622844&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>
<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>

## 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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