

# 2-Pyrazolin-5-one, 3-isobutyl-

<b>Inchi:</b>	InChI=1S/C7H12N2O/c1-5(2)3-6-4-7(10)9-8-6/h5H,3-4H2,1-2H3,(H,9,10)
<b>InchiKey:</b>	PWHAMHNZTMGTFK-UHFFFAOYSA-N
<b>Formula:</b>	C7H12N2O
<b>SMILES:</b>	CC(C)CC1=NNC(=O)C1
<b>Mol. weight [g/mol]:</b>	140.18
<b>CAS:</b>	35087-29-7

## Physical Properties

Property code	Value	Unit	Source
gf	152.11	kJ/mol	Joback Method
hf	-94.88	kJ/mol	Joback Method
hfus	18.30	kJ/mol	Joback Method
hvap	49.52	kJ/mol	Joback Method
log10ws	-1.52		Crippen Method
logp	0.908		Crippen Method
mcvol	115.860	ml/mol	McGowan Method
pc	3970.51	kPa	Joback Method
tb	553.28	K	Joback Method
tc	792.76	K	Joback Method
tf	426.86	K	Joback Method
vc	0.443	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.22	J/mol×K	553.28	Joback Method
cpg	300.65	J/mol×K	593.19	Joback Method
cpg	315.31	J/mol×K	633.11	Joback Method
cpg	329.17	J/mol×K	673.02	Joback Method
cpg	342.20	J/mol×K	712.93	Joback Method
cpg	354.36	J/mol×K	752.84	Joback Method
cpg	365.62	J/mol×K	792.76	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=C35087297&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35087297&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>
<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>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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