

# Hydrazine, 1-methyl-1-(2-methylpropyl)-

<b>Other names:</b>	1-Methyl-1-isobutylhydrazine Hydrazine, 1-isobutyl-1-methyl
<b>Inchi:</b>	InChI=1S/C5H14N2/c1-5(2)4-7(3)6/h5H,4,6H2,1-3H3
<b>InchiKey:</b>	DVWYNPADZDHBSJ-UHFFFAOYSA-N
<b>Formula:</b>	C5H14N2
<b>SMILES:</b>	CC(C)CN(C)N
<b>Mol. weight [g/mol]:</b>	102.18
<b>CAS:</b>	20240-63-5

## Physical Properties

Property code	Value	Unit	Source
gf	166.01	kJ/mol	Joback Method
hf	-50.49	kJ/mol	Joback Method
hfus	13.40	kJ/mol	Joback Method
hvap	39.02	kJ/mol	Joback Method
log10ws	-0.67		Crippen Method
logp	0.448		Crippen Method
mcvol	101.270	ml/mol	McGowan Method
pc	3740.80	kPa	Joback Method
rinpol	756.00		NIST Webbook
rinpol	756.00		NIST Webbook
tb	398.33	K	Joback Method
tc	581.90	K	Joback Method
tf	246.84	K	Joback Method
vc	0.356	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.00	J/molxK	398.33	Joback Method
cpg	212.72	J/molxK	428.93	Joback Method
cpg	223.91	J/molxK	459.52	Joback Method
cpg	234.58	J/molxK	490.12	Joback Method
cpg	244.75	J/molxK	520.71	Joback Method

cpg	254.44	J/mol×K	551.31	Joback Method
cpg	263.67	J/mol×K	581.90	Joback Method

## Sources

<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=C20240635&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20240635&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>

## 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>rinpola:</b>	Non-polar retention indices
<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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