

# Hydrazine, (2-methylpropyl)-

<b>Other names:</b>	Isobutylhydrazine
<b>Inchi:</b>	InChI=1S/C4H12N2/c1-4(2)3-6-5/h4,6H,3,5H2,1-2H3
<b>InchiKey:</b>	NGSOWKPBNFOQCR-UHFFFAOYSA-N
<b>Formula:</b>	C4H12N2
<b>SMILES:</b>	CC(C)CNN
<b>Mol. weight [g/mol]:</b>	88.15
<b>CAS:</b>	42504-87-0

## Physical Properties

Property code	Value	Unit	Source
gf	136.20	kJ/mol	Joback Method
hf	-43.91	kJ/mol	Joback Method
hfus	12.89	kJ/mol	Joback Method
hvap	41.19	kJ/mol	Joback Method
log10ws	-0.87		Crippen Method
logp	0.106		Crippen Method
mcvol	87.180	ml/mol	McGowan Method
pc	4305.56	kPa	Joback Method
tb	413.18	K	Joback Method
tc	604.56	K	Joback Method
tf	255.76	K	Joback Method
vc	0.318	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	175.66	J/mol×K	413.18	Joback Method
cpg	185.59	J/mol×K	445.08	Joback Method
cpg	195.10	J/mol×K	476.97	Joback Method
cpg	204.18	J/mol×K	508.87	Joback Method
cpg	212.86	J/mol×K	540.77	Joback Method
cpg	221.13	J/mol×K	572.67	Joback Method
cpg	229.02	J/mol×K	604.56	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C42504870&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C42504870&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>hvp:</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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