

# 2-Hexanamine, 5-methyl-

<b>Other names:</b>	1,4-Dimethylpentylamine 2-Amino-5-methylhexane 5-Amino-2-methylhexane 5-Methyl-2-hexylamine Pentylamine, 1,4-dimethyl-
<b>Inchi:</b>	InChI=1S/C7H17N/c1-6(2)4-5-7(3)8/h6-7H,4-5,8H2,1-3H3
<b>InchiKey:</b>	IZCBXLKODYZSDJ-UHFFFAOYSA-N
<b>Formula:</b>	C7H17N
<b>SMILES:</b>	CC(C)CCC(C)N
<b>Mol. weight [g/mol]:</b>	115.22
<b>CAS:</b>	28292-43-5

## Physical Properties

Property code	Value	Unit	Source
gf	69.63	kJ/mol	Joback Method
hf	-164.58	kJ/mol	Joback Method
hfus	12.04	kJ/mol	Joback Method
hvap	41.04	kJ/mol	Joback Method
log10ws	-2.06		Crippen Method
logp	1.770		Crippen Method
mcvol	119.470	ml/mol	McGowan Method
pc	3028.94	kPa	Joback Method
tb	431.21	K	Joback Method
tc	618.16	K	Joback Method
tf	221.91	K	Joback Method
vc	0.445	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.79	J/molxK	431.21	Joback Method
cpg	264.14	J/molxK	462.37	Joback Method
cpg	276.91	J/molxK	493.53	Joback Method
cpg	289.13	J/molxK	524.68	Joback Method

cpg	300.81	J/mol×K	555.84	Joback Method
cpg	311.97	J/mol×K	587.00	Joback Method
cpg	322.62	J/mol×K	618.16	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.36758e+01
Coeff. B	-3.32467e+03
Coeff. C	-5.16460e+01
Temperature range (K), min.	299.98
Temperature range (K), max.	449.13

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C28292435&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C28292435&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>pvap:</b>	Vapor 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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