

# 2-Pentanone, 4-amino-4-methyl-

<b>Other names:</b>	Diacetonamine 4-Amino-4-methyl-2-pentanone 4-amino-4-methylpentan-2-one
<b>Inchi:</b>	InChI=1S/C6H13NO/c1-5(8)4-6(2,3)7/h4,7H2,1-3H3
<b>InchiKey:</b>	CQTRUFMMCCOKTA-UHFFFAOYSA-N
<b>Formula:</b>	C6H13NO
<b>SMILES:</b>	CC(=O)CC(C)(C)N
<b>Mol. weight [g/mol]:</b>	115.17
<b>CAS:</b>	625-04-7

## Physical Properties

Property code	Value	Unit	Source
gf	-59.99	kJ/mol	Joback Method
hf	-254.71	kJ/mol	Joback Method
hfus	10.68	kJ/mol	Joback Method
hvap	45.04	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	0.703		Crippen Method
mcvol	106.950	ml/mol	McGowan Method
pc	3650.93	kPa	Joback Method
tb	452.50 ± 1.50	K	NIST Webbook
tc	663.86	K	Joback Method
tf	292.99	K	Joback Method
vc	0.396	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.63	J/mol×K	459.85	Joback Method
cpg	243.50	J/mol×K	493.85	Joback Method
cpg	254.68	J/mol×K	527.85	Joback Method
cpg	265.19	J/mol×K	561.86	Joback Method
cpg	275.07	J/mol×K	595.86	Joback Method
cpg	284.34	J/mol×K	629.86	Joback Method

cpg

293.06

J/mol×K

663.86

Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	298.00	K	0.03	NIST Webbook

## Sources

McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C625047&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C625047&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Joback Method:	<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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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