

# 3-Butyn-2-amine, 2-methyl-

<b>Other names:</b>	3-Amino-3-methyl-1-butyne 1,1-Dimethylpropargylamine 1,1-dimethylprop-3-ynylamine
<b>Inchi:</b>	InChI=1S/C5H9N/c1-4-5(2,3)6/h1H,6H2,2-3H3
<b>InchiKey:</b>	VUGCBIWQHRSQBZ-UHFFFAOYSA-N
<b>Formula:</b>	C5H9N
<b>SMILES:</b>	C#CC(C)(C)N
<b>Mol. weight [g/mol]:</b>	83.13
<b>CAS:</b>	2978-58-7

## Physical Properties

Property code	Value	Unit	Source
gf	283.58	kJ/mol	Joback Method
hf	170.41	kJ/mol	Joback Method
hfus	9.46	kJ/mol	Joback Method
hvap	35.93	kJ/mol	Joback Method
log10ws	-1.26		Crippen Method
logp	0.357		Crippen Method
mcvol	82.690	ml/mol	McGowan Method
pc	4602.62	kPa	Joback Method
tb	352.70	K	NIST Webbook
tc	581.72	K	Joback Method
tf	278.76	K	Joback Method
vc	0.295	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.66	J/molxK	373.22	Joback Method
cpg	161.47	J/molxK	407.97	Joback Method
cpg	170.61	J/molxK	442.72	Joback Method
cpg	179.12	J/molxK	477.47	Joback Method
cpg	187.05	J/molxK	512.22	Joback Method
cpg	194.42	J/molxK	546.97	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=C2978587&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2978587&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>

## 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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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