

# Propargyldipropylamine

Other names:	Dipropyl propargyl amine N,N-Dipropyl-2-propyn-1-amine
Inchi:	InChI=1S/C9H17N/c1-4-7-10(8-5-2)9-6-3/h1H,5-9H2,2-3H3
InchiKey:	ATTMKPWGJILFFV-UHFFFAOYSA-N
Formula:	C9H17N
SMILES:	C#CCN(CCC)CCC
Mol. weight [g/mol]:	139.24
CAS:	6323-79-1

## Physical Properties

Property code	Value	Unit	Source
gf	358.75	kJ/mol	Joback Method
hf	130.34	kJ/mol	Joback Method
hfl	84.00 ± 3.00	kJ/mol	NIST Webbook
hfus	25.06	kJ/mol	Joback Method
hvap	37.53	kJ/mol	Joback Method
log10ws	-1.95		Crippen Method
logp	1.742		Crippen Method
mcvol	139.050	ml/mol	McGowan Method
pc	2668.02	kPa	Joback Method
rinpol	916.00		NIST Webbook
tb	407.88	K	Joback Method
tc	580.67	K	Joback Method
tf	270.63	K	Joback Method
vc	0.519	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.08	J/molxK	407.88	Joback Method
cpg	289.05	J/molxK	436.68	Joback Method
cpg	302.39	J/molxK	465.48	Joback Method
cpg	315.13	J/molxK	494.28	Joback Method
cpg	327.29	J/molxK	523.07	Joback Method

cpg	338.90	J/mol×K	551.87	Joback Method
cpg	349.97	J/mol×K	580.67	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=C6323791&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6323791&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>hfl:</b>	Liquid phase 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>rinpol:</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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