

# (+)-2-Aminoheptane

<b>Inchi:</b>	InChI=1S/C7H17N/c1-3-4-5-6-7(2)8/h7H,3-6,8H2,1-2H3/t7-/m0/s1
<b>InchiKey:</b>	VSRBKQFNFZQRBM-ZETCQYMHSA-N
<b>Formula:</b>	C7H17N
<b>SMILES:</b>	CCCCCC(C)N
<b>Mol. weight [g/mol]:</b>	115.22
<b>CAS:</b>	6240-90-0

## Physical Properties

Property code	Value	Unit	Source
gf	72.07	kJ/mol	Joback Method
hf	-159.30	kJ/mol	Joback Method
hfus	15.56	kJ/mol	Joback Method
hvap	41.43	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	1.914		Crippen Method
mcvol	119.470	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
tb	431.65	K	Joback Method
tc	614.39	K	Joback Method
tf	236.91	K	Joback Method
vc	0.451	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.75	J/mol×K	431.65	Joback Method
cpg	263.71	J/mol×K	462.11	Joback Method
cpg	276.13	J/mol×K	492.56	Joback Method
cpg	288.03	J/mol×K	523.02	Joback Method
cpg	299.42	J/mol×K	553.48	Joback Method
cpg	310.31	J/mol×K	583.94	Joback Method
cpg	320.73	J/mol×K	614.39	Joback Method

# Sources

<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=C6240900&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6240900&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>

# 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>h vap:</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>m cvol:</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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