

# Cathinone

<b>Other names:</b>	Norephedrone 1-Propanone, 2-amino-1-phenyl-, (S)- l-Cathinone (S)-2-Aminopropiophenone (-)-«alpha»-Aminopropiophenone S(-)-Cathinone 2-Amino-1-phenyl-1-propanone
<b>Inchi:</b>	InChI=1S/C9H11NO/c1-7(10)9(11)8-5-3-2-4-6-8/h2-7H,10H2,1H3
<b>InchiKey:</b>	PUAQLLVFLMYYJJ-UHFFFAOYSA-N
<b>Formula:</b>	C9H11NO
<b>SMILES:</b>	CC(N)C(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	149.19
<b>CAS:</b>	71031-15-7

## Physical Properties

Property code	Value	Unit	Source
gf	72.40	kJ/mol	Joback Method
hf	-76.63	kJ/mol	Joback Method
hfus	16.38	kJ/mol	Joback Method
hvap	54.90	kJ/mol	Joback Method
log10ws	-2.10		Crippen Method
logp	1.217		Crippen Method
mvol	125.460	ml/mol	McGowan Method
pc	3796.32	kPa	Joback Method
rinpol	1334.70		NIST Webbook
rinpol	1334.70		NIST Webbook
tb	557.96	K	Joback Method
tc	791.45	K	Joback Method
tf	335.80	K	Joback Method
vc	0.461	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
---------------	-------	------	-----------------	--------

cpg	288.27	J/mol×K	557.96	Joback Method
cpg	301.36	J/mol×K	596.88	Joback Method
cpg	313.54	J/mol×K	635.79	Joback Method
cpg	324.83	J/mol×K	674.71	Joback Method
cpg	335.28	J/mol×K	713.62	Joback Method
cpg	344.94	J/mol×K	752.54	Joback Method
cpg	353.85	J/mol×K	791.45	Joback Method

## Sources

<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=C71031157&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C71031157&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>
<b>Joback Method:</b>	<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>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

Latest version available from:

<https://www.chemeo.com/cid/17-150-6/Cathinone.pdf>

Generated by Cheméo on 2024-04-18 08:18:46.132343759 +0000 UTC m=+15717575.052921070.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.