

# Bicyclo[4.1.0]hepta-2,4-diene-7-carbonitrile, 7-phenyl-

Inchi:	InChI=1S/C14H11N/c15-10-14(11-6-2-1-3-7-11)12-8-4-5-9-13(12)14/h1-9,12-13H
InchiKey:	ZUEHDKCSXWCSAX-UHFFFAOYSA-N
Formula:	C14H11N
SMILES:	N#CC1(c2ccccc2)C2C=CC=CC21
Mol. weight [g/mol]:	193.24
CAS:	32777-15-4

## Physical Properties

Property code	Value	Unit	Source
gf	468.71	kJ/mol	Joback Method
hf	319.02	kJ/mol	Joback Method
hfus	18.95	kJ/mol	Joback Method
hvap	58.63	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	2.820		Crippen Method
mcvol	155.420	ml/mol	McGowan Method
pc	2808.38	kPa	Joback Method
tb	660.12	K	Joback Method
tc	920.90	K	Joback Method
tf	392.49	K	Joback Method
vc	0.613	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	407.29	J/mol×K	660.12	Joback Method
cpg	422.19	J/mol×K	703.58	Joback Method
cpg	436.05	J/mol×K	747.05	Joback Method
cpg	449.20	J/mol×K	790.51	Joback Method
cpg	461.93	J/mol×K	833.97	Joback Method
cpg	474.55	J/mol×K	877.43	Joback Method
cpg	487.36	J/mol×K	920.90	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=C32777154&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C32777154&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>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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