

# 5-Phenylbicyclo[2.2.1]hept-2-ene

<b>Inchi:</b>	InChI=1S/C13H14/c1-2-4-11(5-3-1)13-9-10-6-7-12(13)8-10/h1-7,10,12-13H,8-9H2
<b>InchiKey:</b>	PGNNHYNYFLXKDZ-UHFFFAOYSA-N
<b>Formula:</b>	C13H14
<b>SMILES:</b>	C1=CC2CC1CC2c1ccccc1
<b>Mol. weight [g/mol]:</b>	170.25
<b>CAS:</b>	6143-30-2

## Physical Properties

Property code	Value	Unit	Source
gf	302.64	kJ/mol	Joback Method
hf	101.76	kJ/mol	Joback Method
hfus	19.93	kJ/mol	Joback Method
hvap	46.79	kJ/mol	Joback Method
log10ws	-3.49		Crippen Method
logp	3.366		Crippen Method
mcvol	144.250	ml/mol	McGowan Method
pc	2931.34	kPa	Joback Method
tb	535.76	K	Joback Method
tc	774.95	K	Joback Method
tf	291.57	K	Joback Method
vc	0.546	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.64	J/molxK	535.76	Joback Method
cpg	368.73	J/molxK	575.62	Joback Method
cpg	387.24	J/molxK	615.49	Joback Method
cpg	404.27	J/molxK	655.35	Joback Method
cpg	419.97	J/molxK	695.22	Joback Method
cpg	434.43	J/molxK	735.08	Joback Method
cpg	447.79	J/molxK	774.95	Joback Method
dvisc	0.0014787	Paxs	291.57	Joback Method
dvisc	0.0012467	Paxs	332.27	Joback Method

dvisc	0.0010910	Paxs	372.97	Joback Method
dvisc	0.0009802	Paxs	413.67	Joback Method
dvisc	0.0008976	Paxs	454.36	Joback Method
dvisc	0.0008340	Paxs	495.06	Joback Method
dvisc	0.0007836	Paxs	535.76	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6143302&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6143302&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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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