

# 1,5-Diphenylbicyclo[3.2.0]heptane

<b>Inchi:</b>	InChI=1S/C19H20/c1-3-8-16(9-4-1)18-12-7-13-19(18,15-14-18)17-10-5-2-6-11-17/h1-6,8
<b>InchiKey:</b>	ITJCELKBMFHZCC-UHFFFAOYSA-N
<b>Formula:</b>	C19H22
<b>SMILES:</b>	<chem>c1ccc(C23CCCC2(c2ccccc2)CC3)cc1</chem>
<b>Mol. weight [g/mol]:</b>	250.38
<b>CAS:</b>	94383-67-2

## Physical Properties

Property code	Value	Unit	Source
gf	432.34	kJ/mol	Joback Method
hf	215.00	kJ/mol	NIST Webbook
hfus	14.62	kJ/mol	Joback Method
hvap	60.14	kJ/mol	Joback Method
log10ws	-5.12		Crippen Method
logp	4.840		Crippen Method
mcvol	209.330	ml/mol	McGowan Method
pc	2487.55	kPa	Joback Method
tb	705.71	K	Joback Method
tc	982.17	K	Joback Method
tf	436.89	K	Joback Method
vc	0.785	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	597.06	J/molxK	705.71	Joback Method
cpg	619.18	J/molxK	751.79	Joback Method
cpg	640.42	J/molxK	797.86	Joback Method
cpg	661.38	J/molxK	843.94	Joback Method
cpg	682.68	J/molxK	890.01	Joback Method
cpg	704.91	J/molxK	936.09	Joback Method
cpg	728.68	J/molxK	982.17	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=C94383672&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C94383672&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>hvac:</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>mccol:</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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