

# 2,2-Diphenylmorpholine

<b>Inchi:</b>	InChI=1S/C16H17NO/c1-3-7-14(8-4-1)16(13-17-11-12-18-16)15-9-5-2-6-10-15/h1-10,17
<b>InchiKey:</b>	SVFBVQXAMFIPIM-UHFFFAOYSA-N
<b>Formula:</b>	C16H17NO
<b>SMILES:</b>	<chem>c1ccc(C2(c3ccccc3)CNCCO2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	239.31
<b>CAS:</b>	77373-34-3

## Physical Properties

Property code	Value	Unit	Source
gf	329.21	kJ/mol	Joback Method
hf	74.86	kJ/mol	Joback Method
hfus	28.38	kJ/mol	Joback Method
hvap	66.31	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	2.550		Crippen Method
mcvol	193.770	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
tb	714.13	K	Joback Method
tc	995.10	K	Joback Method
tf	485.80	K	Joback Method
vc	0.705	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	540.83	J/molxK	714.13	Joback Method
cpg	561.32	J/molxK	760.96	Joback Method
cpg	580.43	J/molxK	807.79	Joback Method
cpg	598.45	J/molxK	854.62	Joback Method
cpg	615.71	J/molxK	901.45	Joback Method
cpg	632.51	J/molxK	948.27	Joback Method
cpg	649.14	J/molxK	995.10	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=C77373343&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C77373343&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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