

# S-(-)-1,1-Diphenylprolinol

**Other names:**

2-Pyrrolidinemethanol, «alpha», «alpha»-diphenyl-, (2S)-  
S -(-)- alpha , alpha -diphenyl-2-pyrrolidine methanol

**Inchi:** InChI=1S/C17H19NO/c19-17(16-12-7-13-18-16,14-8-3-1-4-9-14)15-10-5-2-6-11-15/h1-6,**InchiKey:** OGCGXUGBDJGFFY-MRXNPFEDSA-N**Formula:** C17H19NO**SMILES:** OC(c1ccccc1)(c1ccccc1)C1CCCN1**Mol. weight [g/mol]:** 253.34**CAS:** 112068-01-6

## Physical Properties

Property code	Value	Unit	Source
gf	307.36	kJ/mol	Joback Method
hf	16.16	kJ/mol	Joback Method
hfus	28.07	kJ/mol	Joback Method
hvap	80.39	kJ/mol	Joback Method
log10ws	-3.87		Crippen Method
logp	2.675		Crippen Method
mvol	207.860	ml/mol	McGowan Method
pc	2853.57	kPa	Joback Method
tb	794.50	K	Joback Method
tc	1043.81	K	Joback Method
tf	513.36	K	Joback Method
vc	0.757	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	626.37	J/molxK	794.50	Joback Method
cpg	642.51	J/molxK	836.05	Joback Method
cpg	657.26	J/molxK	877.60	Joback Method
cpg	670.76	J/molxK	919.15	Joback Method
cpg	683.15	J/molxK	960.70	Joback Method
cpg	694.58	J/molxK	1002.25	Joback Method
cpg	705.18	J/molxK	1043.81	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=C112068016&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C112068016&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>hvp:</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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