

# 3,3-Diphenyl-1-propanol

<b>Other names:</b>	2,3-diphenylpropanol
<b>Inchi:</b>	InChI=1S/C15H16O/c16-12-11-15(13-7-3-1-4-8-13)14-9-5-2-6-10-14/h1-10,15-16H,11-12
<b>InchiKey:</b>	IDCXQMVSIIJUEH-UHFFFAOYSA-N
<b>Formula:</b>	C15H16O
<b>SMILES:</b>	OCCC(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	212.29
<b>CAS:</b>	3536-29-6

## Physical Properties

Property code	Value	Unit	Source
gf	160.98	kJ/mol	Joback Method
hf	-37.38	kJ/mol	Joback Method
hfus	23.25	kJ/mol	Joback Method
hvap	69.83	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.201		Crippen Method
mcvol	180.560	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
rinpol	1800.00		NIST Webbook
rinpol	1800.00		NIST Webbook
tb	687.70	K	Joback Method
tc	907.90	K	Joback Method
tf	357.47	K	Joback Method
vc	0.672	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	480.52	J/molxK	687.70	Joback Method
cpg	495.10	J/molxK	724.40	Joback Method
cpg	508.61	J/molxK	761.10	Joback Method
cpg	521.13	J/molxK	797.80	Joback Method
cpg	532.73	J/molxK	834.50	Joback Method
cpg	543.47	J/molxK	871.20	Joback Method

cpg	553.42	J/mol×K	907.90	Joback Method
dvisc	0.0045836	Paxs	357.47	Joback Method
dvisc	0.0012196	Paxs	412.51	Joback Method
dvisc	0.0004432	Paxs	467.55	Joback Method
dvisc	0.0001993	Paxs	522.59	Joback Method
dvisc	0.0001044	Paxs	577.62	Joback Method
dvisc	0.0000612	Paxs	632.66	Joback Method
dvisc	0.0000391	Paxs	687.70	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3536296&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3536296&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>rinpol:</b>	Non-polar retention indices
<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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