

# 2,2-Diphenylethanol

<b>Other names:</b>	Benzeneethanol, «beta»-phenyl- 2,2-Diphenyl-1-ethanol 2,2-Diphenyl-1-hydroxyethane «beta»-phenylphenethyl alcohol
<b>Inchi:</b>	InChI=1S/C14H14O/c15-11-14(12-7-3-1-4-8-12)13-9-5-2-6-10-13/h1-10,14-15H,11H2
<b>InchiKey:</b>	NYLOEXLAXYHOHH-UHFFFAOYSA-N
<b>Formula:</b>	C14H14O
<b>SMILES:</b>	OCC(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	198.26
<b>CAS:</b>	1883-32-5

## Physical Properties

Property code	Value	Unit	Source
gf	152.56	kJ/mol	Joback Method
hf	-16.74	kJ/mol	Joback Method
hfus	20.66	kJ/mol	Joback Method
hvap	67.60	kJ/mol	Joback Method
log10ws	-3.22		Crippen Method
logp	2.811		Crippen Method
mcvol	166.470	ml/mol	McGowan Method
pc	3086.42	kPa	Joback Method
rinpol	1447.00		NIST Webbook
rinpol	1447.00		NIST Webbook
ripol	2783.00		NIST Webbook
ripol	2783.00		NIST Webbook
tb	664.82	K	Joback Method
tc	888.92	K	Joback Method
tf	335.15 ± 2.00	K	NIST Webbook
vc	0.617	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.17	J/mol×K	664.82	Joback Method

cpg	443.31	J/molxK	702.17	Joback Method
cpg	456.38	J/molxK	739.52	Joback Method
cpg	468.47	J/molxK	776.87	Joback Method
cpg	479.63	J/molxK	814.22	Joback Method
cpg	489.94	J/molxK	851.57	Joback Method
cpg	499.46	J/molxK	888.92	Joback Method
dvisc	0.0054968	Paxs	346.20	Joback Method
dvisc	0.0014590	Paxs	399.30	Joback Method
dvisc	0.0005287	Paxs	452.41	Joback Method
dvisc	0.0002372	Paxs	505.51	Joback Method
dvisc	0.0001239	Paxs	558.61	Joback Method
dvisc	0.0000724	Paxs	611.72	Joback Method
dvisc	0.0000461	Paxs	664.82	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	464.20	K	1.60	NIST Webbook

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1883325&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1883325&amp;Units=SI</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>mcpvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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