

# 4-Propyl-1,1'-diphenyl

<b>Inchi:</b>	InChI=1S/C15H16/c1-2-6-13-9-11-15(12-10-13)14-7-4-3-5-8-14/h3-5,7-12H,2,6H2,1H3
<b>InchiKey:</b>	NAYIXKXYHOLMRC-UHFFFAOYSA-N
<b>Formula:</b>	C15H16
<b>SMILES:</b>	CCc1ccc(-c2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	196.29
<b>CAS:</b>	10289-45-9

## Physical Properties

Property code	Value	Unit	Source
gf	290.61	kJ/mol	Joback Method
hf	108.66	kJ/mol	Joback Method
hfus	22.30	kJ/mol	Joback Method
hvap	54.20	kJ/mol	Joback Method
log10ws	-5.30		Crippen Method
logp	4.306		Crippen Method
mvol	174.690	ml/mol	McGowan Method
pc	2472.73	kPa	Joback Method
tb	569.00 ± 4.00	K	NIST Webbook
tc	836.65	K	Joback Method
tf	274.00 ± 4.00	K	NIST Webbook
vc	0.659	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	421.35	J/mol×K	600.94	Joback Method
cpg	439.33	J/mol×K	640.22	Joback Method
cpg	456.02	J/mol×K	679.51	Joback Method
cpg	471.49	J/mol×K	718.79	Joback Method
cpg	485.83	J/mol×K	758.08	Joback Method
cpg	499.09	J/mol×K	797.36	Joback Method
cpg	511.34	J/mol×K	836.65	Joback Method
dvisc	0.0019137	Paxs	324.17	Joback Method
dvisc	0.0009812	Paxs	370.30	Joback Method

dvisc	0.0005833	Paxs	416.43	Joback Method
dvisc	0.0003847	Paxs	462.55	Joback Method
dvisc	0.0002736	Paxs	508.68	Joback Method
dvisc	0.0002059	Paxs	554.81	Joback Method
dvisc	0.0001619	Paxs	600.94	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=C10289459&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10289459&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>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>mccvol:</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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