

# 2,5-diphenyl-1-pentene

<b>Inchi:</b>	InChI=1S/C17H18/c1-15(17-13-6-3-7-14-17)9-8-12-16-10-4-2-5-11-16/h2-7,10-11,13-14H
<b>InchiKey:</b>	GCIYECAFPPBRX-UHFFFAOYSA-N
<b>Formula:</b>	C17H18
<b>SMILES:</b>	<chem>C=C(CCCc1ccccc1)c1ccccc1</chem>
<b>Mol. weight [g/mol]:</b>	222.32

## Physical Properties

Property code	Value	Unit	Source
gf	396.37	kJ/mol	Joback Method
hf	194.49	kJ/mol	Joback Method
hfus	25.28	kJ/mol	Joback Method
hvap	57.40	kJ/mol	Joback Method
log10ws	-5.17		Crippen Method
logp	4.723		Crippen Method
mvol	198.570	ml/mol	McGowan Method
pc	2181.56	kPa	Joback Method
rinpol	1900.00		NIST Webbook
rinpol	1900.00		NIST Webbook
tb	638.28	K	Joback Method
tc	872.65	K	Joback Method
tf	318.47	K	Joback Method
vc	0.753	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.83	J/mol×K	638.28	Joback Method
cpg	520.56	J/mol×K	677.34	Joback Method
cpg	537.90	J/mol×K	716.40	Joback Method
cpg	553.94	J/mol×K	755.47	Joback Method
cpg	568.76	J/mol×K	794.53	Joback Method
cpg	582.47	J/mol×K	833.59	Joback Method
cpg	595.15	J/mol×K	872.65	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=R316326&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R316326&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>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>rinpola:</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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