

# 2-Pentene, 4-methyl-2,4-diphenyl-

**Other names:**

Benzene, 1,1'-(1,3,3-trimethyl-1-propene-1,3-diyl)bis-  
2,4-Diphenyl-4-methyl-2-pentene  
[1,1-Dimethyl-3-phenyl-2-butenyl]benzene  
NSC 54387  
1,3-Dimethyl-1,3-diphenyl-1-butene  
1,1'-(1,3,3-trimethylprop-1-ene-1,3-diyl)dibenzene

**Inchi:** InChI=1S/C18H20/c1-15(16-10-6-4-7-11-16)14-18(2,3)17-12-8-5-9-13-17/h4-14H,1-3H3/**InchiKey:** VOOVDZMAQQVAEW-PFONDFGASA-N**Formula:** C18H20**SMILES:** CC(=CC(C)(C)c1ccccc1)c1ccccc1**Mol. weight [g/mol]:** 236.35**CAS:** 6258-73-7

## Physical Properties

Property code	Value	Unit	Source
gf	400.01	kJ/mol	Joback Method
hf	156.89	kJ/mol	Joback Method
hfus	21.94	kJ/mol	Joback Method
hvap	58.96	kJ/mol	Joback Method
log10ws	-5.26		Crippen Method
logp	5.068		Crippen Method
mcvol	212.660	ml/mol	McGowan Method
pc	2051.17	kPa	Joback Method
rinpol	1826.00		NIST Webbook
rinpol	1826.00		NIST Webbook
tb	665.41	K	Joback Method
tc	914.25	K	Joback Method
tf	328.84	K	Joback Method
vc	0.797	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	558.41	J/mol×K	665.41	Joback Method

cpg	578.36	J/mol×K	706.88	Joback Method
cpg	596.66	J/mol×K	748.36	Joback Method
cpg	613.47	J/mol×K	789.83	Joback Method
cpg	628.95	J/mol×K	831.30	Joback Method
cpg	643.25	J/mol×K	872.77	Joback Method
cpg	656.55	J/mol×K	914.25	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6258737&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6258737&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>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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