

# Pentaphenyl benzene

<b>Inchi:</b>	InChI=1S/C36H26/c1-6-16-27(17-7-1)32-26-33(28-18-8-2-9-19-28)35(30-22-12-4-13-23-3)
<b>InchiKey:</b>	JULFJTZPJNNMQK-UHFFFAOYSA-N
<b>Formula:</b>	C36H26
<b>SMILES:</b>	<chem>c1ccc(-c2cc(-c3ccccc3)c(-c3ccccc3)c(-c3ccccc3)c2-c2ccccc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	458.59
<b>CAS:</b>	18631-82-8

## Physical Properties

Property code	Value	Unit	Source
gf	888.18	kJ/mol	Joback Method
hf	586.93	kJ/mol	Joback Method
hfus	51.69	kJ/mol	Joback Method
hvap	112.03	kJ/mol	Joback Method
log10ws	-14.49		Crippen Method
logp	10.022		Crippen Method
mcvol	375.540	ml/mol	McGowan Method
pc	1324.24	kPa	Joback Method
tb	1203.08	K	Joback Method
tc	1502.25	K	Joback Method
tf	704.08	K	Joback Method
vc	1.403	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1223.68	J/molxK	1203.08	Joback Method
cpg	1238.09	J/molxK	1252.94	Joback Method
cpg	1252.09	J/molxK	1302.80	Joback Method
cpg	1266.01	J/molxK	1352.66	Joback Method
cpg	1280.21	J/molxK	1402.52	Joback Method
cpg	1295.04	J/molxK	1452.38	Joback Method
cpg	1310.85	J/molxK	1502.25	Joback Method
dvisc	0.0001288	Paxs	704.08	Joback Method
dvisc	0.0000740	Paxs	787.25	Joback Method

dvisc	0.0000473	Paxs	870.41	Joback Method
dvisc	0.0000326	Paxs	953.58	Joback Method
dvisc	0.0000239	Paxs	1036.75	Joback Method
dvisc	0.0000184	Paxs	1119.91	Joback Method
dvisc	0.0000146	Paxs	1203.08	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=C18631828&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18631828&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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