

# 1,2,3,5-Tetraphenylbenzene

<b>Inchi:</b>	InChI=1S/C30H22/c1-5-13-23(14-6-1)27-21-28(24-15-7-2-8-16-24)30(26-19-11-4-12-20-
<b>InchiKey:</b>	SKTCWUHHHPSBCJ-UHFFFAOYSA-N
<b>Formula:</b>	C30H22
<b>SMILES:</b>	c1ccc(-c2cc(-c3ccccc3)c(-c3ccccc3)c(-c3ccccc3)c2)cc1
<b>Mol. weight [g/mol]:</b>	382.50
<b>CAS:</b>	912-61-8

## Physical Properties

Property code	Value	Unit	Source
gf	734.88	kJ/mol	Joback Method
hf	485.71	kJ/mol	Joback Method
hfus	42.49	kJ/mol	Joback Method
hvap	95.74	kJ/mol	Joback Method
log10ws	-11.88		Crippen Method
logp	8.355		Crippen Method
mcvol	314.760	ml/mol	McGowan Method
pc	1615.47	kPa	Joback Method
tb	1034.14	K	Joback Method
tc	1323.15	K	Joback Method
tf	597.52	K	Joback Method
vc	1.175	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	976.86	J/molxK	1034.14	Joback Method
cpg	991.89	J/molxK	1082.31	Joback Method
cpg	1005.67	J/molxK	1130.48	Joback Method
cpg	1018.47	J/molxK	1178.64	Joback Method
cpg	1030.55	J/molxK	1226.81	Joback Method
cpg	1042.19	J/molxK	1274.98	Joback Method
cpg	1053.65	J/molxK	1323.15	Joback Method
dvisc	0.0002934	Paxs	597.52	Joback Method
dvisc	0.0001656	Paxs	670.29	Joback Method

dvisc	0.0001045	Paxs	743.06	Joback Method
dvisc	0.0000716	Paxs	815.83	Joback Method
dvisc	0.0000522	Paxs	888.60	Joback Method
dvisc	0.0000399	Paxs	961.37	Joback Method
dvisc	0.0000317	Paxs	1034.14	Joback Method

## Sources

<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=C912618&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C912618&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>

## 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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