

# 2'-(Acetyloxy)-3,3',5,5'-tetratert-butyl[1,1'-biphenyl]

Inchi:  
**acetate**

InChI=1S/C32H46O4/c1-19(33)35-27-23(15-21(29(3,4)5)17-25(27)31(9,10)11)24-16-22(

InchiKey:

FMZYGJOYPAUSQE-UHFFFAOYSA-N

Formula:

C32H46O4

SMILES:

CC(=O)Oc1c(-c2cc(C(C)(C)C)cc(C(C)(C)C)c2OC(C)=O)cc(C(C)(C)C)cc1C(C)(C)C

Mol. weight [g/mol]:

494.71

## Physical Properties

Property code	Value	Unit	Source
gf	-70.88	kJ/mol	Joback Method
hf	-824.17	kJ/mol	Joback Method
hfus	40.30	kJ/mol	Joback Method
hvap	108.48	kJ/mol	Joback Method
log10ws	-9.96		Crippen Method
logp	8.394		Crippen Method
mcvol	429.100	ml/mol	McGowan Method
pc	793.49	kPa	Joback Method
tb	1154.46	K	Joback Method
tc	1413.39	K	Joback Method
tf	732.36	K	Joback Method
vc	1.615	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1507.64	J/molxK	1154.46	Joback Method
cpg	1524.63	J/molxK	1197.61	Joback Method
cpg	1540.67	J/molxK	1240.77	Joback Method
cpg	1555.95	J/molxK	1283.92	Joback Method
cpg	1570.71	J/molxK	1327.08	Joback Method
cpg	1585.13	J/molxK	1370.23	Joback Method
cpg	1599.43	J/molxK	1413.39	Joback Method
dvisc	0.0000339	Paxs	732.36	Joback Method
dvisc	0.0000191	Paxs	802.71	Joback Method
dvisc	0.0000118	Paxs	873.06	Joback Method

dvisc	0.0000079	Paxs	943.41	Joback Method
dvisc	0.0000055	Paxs	1013.76	Joback Method
dvisc	0.0000041	Paxs	1084.11	Joback Method
dvisc	0.0000031	Paxs	1154.46	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=B6004197&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6004197&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.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>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>hvac:</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>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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