

# (E)-3,4-Di-tert-butyl-3-hexene

<b>Inchi:</b>	InChI=1S/C14H28/c1-9-11(13(3,4)5)12(10-2)14(6,7)8/h9-10H2,1-8H3/b12-11+
<b>InchiKey:</b>	MVTUXXAVOOUGFH-VAWYXSNFSA-N
<b>Formula:</b>	C14H28
<b>SMILES:</b>	CCC(=C(CC)C(C)(C)C)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	196.37
<b>CAS:</b>	75245-21-5

## Physical Properties

Property code	Value	Unit	Source
gf	135.80	kJ/mol	Joback Method
hf	-168.30	kJ/mol	NIST Webbook
hfus	14.77	kJ/mol	Joback Method
hvap	44.28	kJ/mol	Joback Method
log10ws	-5.05		Crippen Method
logp	5.195		Crippen Method
mcvol	203.820	ml/mol	McGowan Method
pc	1649.77	kPa	Joback Method
tb	517.18	K	Joback Method
tc	708.74	K	Joback Method
tf	219.38	K	Joback Method
vc	0.779	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	493.46	J/mol×K	517.18	Joback Method
cpg	514.43	J/mol×K	549.11	Joback Method
cpg	534.19	J/mol×K	581.03	Joback Method
cpg	552.81	J/mol×K	612.96	Joback Method
cpg	570.35	J/mol×K	644.88	Joback Method
cpg	586.89	J/mol×K	676.81	Joback Method
cpg	602.50	J/mol×K	708.74	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C75245215&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C75245215&amp;Units=SI</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>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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