

# Benzene, 1,2-diethyl-3,4,5,6-tetramethyl-

<b>Other names:</b>	1,2-diethyl-3,4,5,6-tetramethylbenzene
<b>Inchi:</b>	InChI=1S/C14H22/c1-7-13-11(5)9(3)10(4)12(6)14(13)8-2/h7-8H2,1-6H3
<b>InchiKey:</b>	NHBSDRVFXFTYBZ-UHFFFAOYSA-N
<b>Formula:</b>	C14H22
<b>SMILES:</b>	CCc1c(C)c(C)c(C)c(C)c1CC
<b>Mol. weight [g/mol]:</b>	190.32
<b>CAS:</b>	33884-69-4

## Physical Properties

Property code	Value	Unit	Source
gf	131.26	kJ/mol	Joback Method
hf	-153.11	kJ/mol	Joback Method
hfus	24.11	kJ/mol	Joback Method
hvap	52.34	kJ/mol	Joback Method
log10ws	-4.98		Crippen Method
logp	4.045		Crippen Method
mcvol	184.360	ml/mol	McGowan Method
pc	1880.53	kPa	Joback Method
tb	571.30	K	Joback Method
tc	770.40	K	Joback Method
tf	336.56	K	Joback Method
vc	0.712	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.71	J/molxK	571.30	Joback Method
cpg	460.50	J/molxK	604.48	Joback Method
cpg	476.56	J/molxK	637.67	Joback Method
cpg	491.90	J/molxK	670.85	Joback Method
cpg	506.54	J/molxK	704.03	Joback Method
cpg	520.48	J/molxK	737.21	Joback Method
cpg	533.75	J/molxK	770.40	Joback Method
dvisc	0.0008972	Paxs	336.56	Joback Method

dvisc	0.0005807	Paxs	375.68	Joback Method
dvisc	0.0004080	Paxs	414.81	Joback Method
dvisc	0.0003047	Paxs	453.93	Joback Method
dvisc	0.0002383	Paxs	493.05	Joback Method
dvisc	0.0001932	Paxs	532.18	Joback Method
dvisc	0.0001613	Paxs	571.30	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=C33884694&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33884694&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</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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