

# «gamma»-Terpinene

<b>Other names:</b>	.gamma.-terpinen .gamma.-terpinene 1,4-Cyclohexadiene, 1-methyl-4-isopropyl- 1,4-cyclohexadiene, 1-methyl-4-(1-methylethyl)- 1,4-p-menthadiene 1-Isopropyl-4-methyl-cyclohexa-1,4-diene 1-Methyl-4-isopropylcyclohexadiene-1,4 1-isopropyl-4-methyl-1,4-cyclohexadiene 1-isopropyl-4-methyl-1,4-cyclohexadiene («gamma»-terpinene) 1-methyl-4-(1-methylethyl)-1,4-cyclohexadiene 1-methyl-4-isopropyl-1,4-cyclohexadiene 4-isopropyl-1-methyl-1,4-cyclohexadiene Gamma terpinene NSC 21448 Terpinene, «gamma»- crithmene moslene p-mentha-1,4-diene «gamma»-Terpinen «gamma»-Terpinolene
<b>Inchi:</b>	InChI=1S/C10H16/c1-8(2)10-6-4-9(3)5-7-10/h4,7-8H,5-6H2,1-3H3
<b>InchiKey:</b>	YKFLAYDHMOASIY-UHFFFAOYSA-N
<b>Formula:</b>	C10H16
<b>SMILES:</b>	CC1=CCC(C(C)C)=CC1
<b>Mol. weight [g/mol]:</b>	136.23
<b>CAS:</b>	99-85-4

## Physical Properties

Property code	Value	Unit	Source
gf	103.70	kJ/mol	Joback Method
hf	-87.73	kJ/mol	Joback Method
hfus	10.56	kJ/mol	Joback Method
hvap	51.40	kJ/mol	NIST Webbook
log10ws	-3.37		Crippen Method
logp	3.309		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2799.47	kPa	Joback Method

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tf	225.64	K	Joback Method
vc	0.495	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.68	J/mol×K	460.26	Joback Method
cpg	289.04	J/mol×K	495.04	Joback Method
cpg	304.56	J/mol×K	529.81	Joback Method
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rhol	845.16	kg/m <sup>3</sup>	298.20	Physical Behavior of the Phases from the Liquid-Liquid Equilibrium of Citrus Essential Oils Systems at 298.2 K

## Datasets

### Mass density, kg/m<sup>3</sup>

Pressure, kPa - Liquid	Temperature, K - Liquid	Mass density, kg/m <sup>3</sup> - Liquid
101.80	298.15	844.9

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C99854&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C99854&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Viscosities and densities of systems involved in the deterpenation of Essential Oils by the Phases from the liquid-liquid Equilibria of Citrus Paraffin Systems at 298.2 K:</b>	<a href="https://www.doi.org/10.1016/j.jct.2013.11.026">https://www.doi.org/10.1016/j.jct.2013.11.026</a>
<b>Joback Method:</b>	<a href="https://www.doi.org/10.1021/acs.jced.8b00086">https://www.doi.org/10.1021/acs.jced.8b00086</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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rho:</b>	Liquid Density
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<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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