

# Methyleugenol

<b>Other names:</b>	1,2-dimethoxy-4-(2-propenyl)benzene 1,2-dimethoxy-4-allylbenzene 1,3,4-Eugenol methyl ether 1-(3,4-Dimethoxyphenyl)-2-propene 1-Allyl-3,4-dimethoxybenzene 3,4-Dimethoxyallylbenzene 4-Allyl-1,2-dimethoxybenzene 4-Allyl-1,2-dimethoxybenzene 4-Allylveratrole Benzene, 1,2-dimethoxy-4-(2-propen-1-yl)- Benzene, 1,2-dimethoxy-4-(2-propenyl)- Benzene, 4-(2-propenyl)-1,2-dimethoxy Benzene, 4-allyl-1,2-dimethoxy- Ent 21040 Eugenol methyl Eugenol methyl ether Eugenyl methyl ether Methyl eugenol ether Methyl eugenyl ether NSC 209528 O-Methyleugenol Veratrole methyl ether o-Methyl eugenol ether
<b>Inchi:</b>	InChI=1S/C11H14O2/c1-4-5-9-6-7-10(12-2)11(8-9)13-3/h4,6-8H,1,5H2,2-3H3
<b>InchiKey:</b>	ZYEMGPIYFIJGTP-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O2
<b>SMILES:</b>	<chem>C=CCc1ccc(OC)c(OC)c1</chem>
<b>Mol. weight [g/mol]:</b>	178.23
<b>CAS:</b>	93-15-2

## Physical Properties

Property code	Value	Unit	Source
gf	12.73	kJ/mol	Joback Method
hf	-195.79	kJ/mol	Joback Method
hfus	18.61	kJ/mol	Joback Method
hvap	47.83	kJ/mol	Joback Method

log10ws	-2.79		Crippen Method
logp	2.432		Crippen Method
mcvol	149.530	ml/mol	McGowan Method
pc	2589.85	kPa	Joback Method
rinpol	1400.00		NIST Webbook
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tb	527.90	K	NIST Webbook
tc	734.40	K	Joback Method
tf	307.89	K	Joback Method
vc	0.560	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.58	J/molxK	529.24	Joback Method
cpg	346.58	J/molxK	563.43	Joback Method
cpg	359.96	J/molxK	597.63	Joback Method
cpg	372.71	J/molxK	631.82	Joback Method
cpg	384.84	J/molxK	666.01	Joback Method
cpg	396.35	J/molxK	700.21	Joback Method
cpg	407.24	J/molxK	734.40	Joback Method
dvisc	0.0010599	Paxs	307.89	Joback Method
dvisc	0.0006390	Paxs	344.78	Joback Method
dvisc	0.0004248	Paxs	381.67	Joback Method
dvisc	0.0003035	Paxs	418.56	Joback Method
dvisc	0.0002290	Paxs	455.46	Joback Method
dvisc	0.0001802	Paxs	492.35	Joback Method
dvisc	0.0001466	Paxs	529.24	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	402.00 ± 1.00	K	1.30	NIST Webbook

# Datasets

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

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m <sup>3</sup> - Liquid
298.15	100.00	1031.0

Reference <https://www.doi.org/10.1021/acs.jced.8b00939>

## 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=C93152&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C93152&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>Physical Properties of Model and Real Systems Composed of Essential Oils and Hydroalcoholic Solvents at 298.2 K and Atmospheric Pressure:</b>	<a href="https://www.doi.org/10.1021/acs.jced.8b00939">https://www.doi.org/10.1021/acs.jced.8b00939</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>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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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