

# 3,4-Dimethoxytoluene

<b>Other names:</b>	Benzene, 1,2-dimethoxy-4-methyl-Homoveratrole Toluene, 3,4-dimethoxy- 1,2-Dimethoxy-4-methylbenzene 4-Methyl-1,2-dimethoxybenzene 4-Methylveratrol 4-Methylveratrole NSC 7378 Veratrole, 4-methyl- 1,2-Dimethoxy-4-methyl-benzene (4-methylveratrol) Methyl veratrol
<b>Inchi:</b>	InChI=1S/C9H12O2/c1-7-4-5-8(10-2)9(6-7)11-3/h4-6H,1-3H3
<b>InchiKey:</b>	GYPMBQZAVBFUIZ-UHFFFAOYSA-N
<b>Formula:</b>	C9H12O2
<b>SMILES:</b>	COc1ccc(C)cc1OC
<b>Mol. weight [g/mol]:</b>	152.19
<b>CAS:</b>	494-99-5

## Physical Properties

Property code	Value	Unit	Source
gf	-91.95	kJ/mol	Joback Method
hf	-279.94	kJ/mol	Joback Method
hfus	14.70	kJ/mol	Joback Method
hvap	44.05	kJ/mol	Joback Method
ie	7.95	eV	NIST Webbook
log10ws	-2.19		Crippen Method
logp	2.012		Crippen Method
mcvol	125.650	ml/mol	McGowan Method
pc	3035.62	kPa	Joback Method
rinpol	1207.00		NIST Webbook
rinpol	1207.00		NIST Webbook
rinpol	1207.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1208.00		NIST Webbook
rinpol	1230.00		NIST Webbook
rinpol	1171.00		NIST Webbook
rinpol	1246.00		NIST Webbook

ripol	1195.00		NIST Webbook
ripol	1204.00		NIST Webbook
ripol	1198.00		NIST Webbook
ripol	1199.00		NIST Webbook
ripol	1201.00		NIST Webbook
ripol	1204.00		NIST Webbook
ripol	1174.00		NIST Webbook
ripol	1204.00		NIST Webbook
ripol	1806.00		NIST Webbook
ripol	1807.00		NIST Webbook
ripol	1798.00		NIST Webbook
ripol	1806.00		NIST Webbook
ripol	1798.00		NIST Webbook
tb	493.20	K	NIST Webbook
tb	493.15 ± 1.00	K	NIST Webbook
tb	493.15 ± 1.00	K	NIST Webbook
tc	693.63	K	Joback Method
tf	287.11	K	Joback Method
vc	0.468	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	262.85	J/molxK	486.80	Joback Method
cpg	275.38	J/molxK	521.27	Joback Method
cpg	287.43	J/molxK	555.74	Joback Method
cpg	299.00	J/molxK	590.21	Joback Method
cpg	310.08	J/molxK	624.69	Joback Method
cpg	320.65	J/molxK	659.16	Joback Method
cpg	330.70	J/molxK	693.63	Joback Method
dvisc	0.0010774	Paxs	287.11	Joback Method
dvisc	0.0006652	Paxs	320.39	Joback Method
dvisc	0.0004497	Paxs	353.67	Joback Method
dvisc	0.0003252	Paxs	386.95	Joback Method
dvisc	0.0002475	Paxs	420.24	Joback Method
dvisc	0.0001961	Paxs	453.52	Joback Method
dvisc	0.0001604	Paxs	486.80	Joback Method

# Sources

<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=C494995&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C494995&amp;Units=SI</a>
<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>

# 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>ie:</b>	Ionization energy
<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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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