

# (Z)-1-(3',4'-Dimethoxyphenyl)butadiene

<b>Inchi:</b>	InChI=1S/C12H14O2/c1-4-5-6-10-7-8-11(13-2)12(9-10)14-3/h4-9H,1H2,2-3H3/b6-5-
<b>InchiKey:</b>	JFHQUUYHTBVHKK-WAYWQWQTS-A-N
<b>Formula:</b>	C12H14O2
<b>SMILES:</b>	C=CC=Cc1ccc(OC)c(OC)c1
<b>Mol. weight [g/mol]:</b>	190.24

## Physical Properties

Property code	Value	Unit	Source
gf	101.37	kJ/mol	Joback Method
hf	-99.21	kJ/mol	Joback Method
hfus	21.40	kJ/mol	Joback Method
hvap	50.01	kJ/mol	Joback Method
log10ws	-3.23		Crippen Method
logp	2.903		Crippen Method
mvol	159.320	ml/mol	McGowan Method
pc	2477.65	kPa	Joback Method
rinpol	1581.00		NIST Webbook
rinpol	1581.00		NIST Webbook
tb	556.28	K	Joback Method
tc	767.41	K	Joback Method
tf	314.08	K	Joback Method
vc	0.597	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.03	J/molxK	556.28	Joback Method
cpg	374.45	J/molxK	591.47	Joback Method
cpg	388.12	J/molxK	626.66	Joback Method
cpg	401.07	J/molxK	661.85	Joback Method
cpg	413.31	J/molxK	697.04	Joback Method
cpg	424.86	J/molxK	732.23	Joback Method
cpg	435.73	J/molxK	767.41	Joback Method
dvisc	0.0009698	Paxs	314.08	Joback Method

dvisc	0.0005576	Paxs	354.45	Joback Method
dvisc	0.0003590	Paxs	394.81	Joback Method
dvisc	0.0002508	Paxs	435.18	Joback Method
dvisc	0.0001862	Paxs	475.55	Joback Method
dvisc	0.0001448	Paxs	515.91	Joback Method
dvisc	0.0001169	Paxs	556.28	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=R519307&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R519307&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>rinpol:</b>	Non-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

Latest version available from:

<https://www.chemeo.com/cid/10-769-7/Z-1-3-4-Dimethoxyphenyl-butadiene.pdf>

Generated by Cheméo on 2024-04-19 01:57:06.427313405 +0000 UTC m=+15781075.347890721.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.