

# (E)-1-(3,4-dimethoxyphenyl)but-1-ene

<b>Other names:</b>	(E)-1-(3',4'-Dimethoxyphenyl)but-1-ene
<b>Inchi:</b>	InChI=1S/C12H16O2/c1-4-5-6-10-7-8-11(13-2)12(9-10)14-3/h5-9H,4H2,1-3H3/b6-5+
<b>InchiKey:</b>	BONZIDALUXBFRW-AATRIKPKSA-N
<b>Formula:</b>	C12H16O2
<b>SMILES:</b>	CCC=Cc1ccc(OC)c(OC)c1
<b>Mol. weight [g/mol]:</b>	192.25

## Physical Properties

Property code	Value	Unit	Source
gf	13.53	kJ/mol	Joback Method
hf	-224.64	kJ/mol	Joback Method
hfus	22.68	kJ/mol	Joback Method
hvap	50.68	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.127		Crippen Method
mvol	163.620	ml/mol	McGowan Method
pc	2377.22	kPa	Joback Method
rinpol	1612.00		NIST Webbook
rinpol	1616.00		NIST Webbook
tb	559.60	K	Joback Method
tc	766.43	K	Joback Method
tf	315.84	K	Joback Method
vc	0.616	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	379.73	J/mol×K	559.60	Joback Method
cpg	394.80	J/mol×K	594.07	Joback Method
cpg	409.14	J/mol×K	628.54	Joback Method
cpg	422.75	J/mol×K	663.02	Joback Method
cpg	435.66	J/mol×K	697.49	Joback Method
cpg	447.87	J/mol×K	731.96	Joback Method
cpg	459.39	J/mol×K	766.43	Joback Method

dvisc	0.0010224	Paxs	315.84	Joback Method
dvisc	0.0005757	Paxs	356.47	Joback Method
dvisc	0.0003646	Paxs	397.09	Joback Method
dvisc	0.0002513	Paxs	437.72	Joback Method
dvisc	0.0001845	Paxs	478.35	Joback Method
dvisc	0.0001422	Paxs	518.97	Joback Method
dvisc	0.0001138	Paxs	559.60	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=R504979&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R504979&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>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>mvol:</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

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