

# Benzene, 1,3-dimethoxy-4-ethyl-2-methyl

<b>Inchi:</b>	InChI=1S/C11H16O2/c1-5-9-6-7-10(12-3)8(2)11(9)13-4/h6-7H,5H2,1-4H3
<b>InchiKey:</b>	HGZINGCXEMEYCCQ-UHFFFAOYSA-N
<b>Formula:</b>	C11H16O2
<b>SMILES:</b>	CCc1ccc(OC)c(C)c1OC
<b>Mol. weight [g/mol]:</b>	180.24

## Physical Properties

Property code	Value	Unit	Source
gf	-84.74	kJ/mol	Joback Method
hf	-332.69	kJ/mol	Joback Method
hfus	19.50	kJ/mol	Joback Method
hvap	49.16	kJ/mol	Joback Method
log10ws	-2.99		Crippen Method
logp	2.575		Crippen Method
mvol	153.830	ml/mol	McGowan Method
pc	2445.89	kPa	Joback Method
rinpol	1357.00		NIST Webbook
rinpol	1357.00		NIST Webbook
tb	537.54	K	Joback Method
tc	739.59	K	Joback Method
tf	322.17	K	Joback Method
vc	0.580	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.53	J/molxK	537.54	Joback Method
cpg	365.89	J/molxK	571.22	Joback Method
cpg	379.69	J/molxK	604.89	Joback Method
cpg	392.91	J/molxK	638.57	Joback Method
cpg	405.54	J/molxK	672.24	Joback Method
cpg	417.58	J/molxK	705.92	Joback Method
cpg	429.03	J/molxK	739.59	Joback Method
dvisc	0.0008693	Paxs	322.17	Joback Method

dvisc	0.0005502	Paxs	358.06	Joback Method
dvisc	0.0003785	Paxs	393.96	Joback Method
dvisc	0.0002772	Paxs	429.86	Joback Method
dvisc	0.0002130	Paxs	465.75	Joback Method
dvisc	0.0001699	Paxs	501.64	Joback Method
dvisc	0.0001397	Paxs	537.54	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R143029&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R143029&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>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>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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