

# Benzene, 1,3-dimethoxy-5-octyl

<b>Inchi:</b>	InChI=1S/C16H26O2/c1-4-5-6-7-8-9-10-14-11-15(17-2)13-16(12-14)18-3/h11-13H,4-10H
<b>InchiKey:</b>	ZCKFWMPOXUWIMW-UHFFFAOYSA-N
<b>Formula:</b>	C16H26O2
<b>SMILES:</b>	CCCCCCCCc1cc(OC)cc(OC)c1
<b>Mol. weight [g/mol]:</b>	250.38

## Physical Properties

Property code	Value	Unit	Source
gf	-33.01	kJ/mol	Joback Method
hf	-424.42	kJ/mol	Joback Method
hfus	32.83	kJ/mol	Joback Method
hvap	59.63	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.607		Crippen Method
mvol	224.280	ml/mol	McGowan Method
pc	1616.77	kPa	Joback Method
rinpol	1927.00		NIST Webbook
tb	646.96	K	Joback Method
tc	835.82	K	Joback Method
tf	366.00	K	Joback Method
vc	0.860	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	604.00	J/molxK	646.96	Joback Method
cpg	621.87	J/molxK	678.44	Joback Method
cpg	638.89	J/molxK	709.91	Joback Method
cpg	655.07	J/molxK	741.39	Joback Method
cpg	670.42	J/molxK	772.87	Joback Method
cpg	684.93	J/molxK	804.35	Joback Method
cpg	698.63	J/molxK	835.82	Joback Method
dvisc	0.0009798	Paxs	366.00	Joback Method
dvisc	0.0005285	Paxs	412.83	Joback Method

dvisc	0.0003232	Paxs	459.65	Joback Method
dvisc	0.0002165	Paxs	506.48	Joback Method
dvisc	0.0001552	Paxs	553.31	Joback Method
dvisc	0.0001172	Paxs	600.13	Joback Method
dvisc	0.0000922	Paxs	646.96	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=R143232&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R143232&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>

## 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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