

# Benzene, 1,3-dimethoxy-2-pentyl

<b>Inchi:</b>	InChI=1S/C13H20O2/c1-4-5-6-8-11-12(14-2)9-7-10-13(11)15-3/h7,9-10H,4-6,8H2,1-3H3
<b>InchiKey:</b>	UWRHGDACXMGZLQ-UHFFFAOYSA-N
<b>Formula:</b>	C13H20O2
<b>SMILES:</b>	CCCCC1c(OC)cccc1OC
<b>Mol. weight [g/mol]:</b>	208.30

## Physical Properties

Property code	Value	Unit	Source
gf	-58.27	kJ/mol	Joback Method
hf	-362.50	kJ/mol	Joback Method
hfus	25.07	kJ/mol	Joback Method
hvap	52.95	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.436		Crippen Method
mvol	182.010	ml/mol	McGowan Method
pc	2068.00	kPa	Joback Method
rinpol	1520.00		NIST Webbook
rinpol	1520.00		NIST Webbook
tb	578.32	K	Joback Method
tc	773.80	K	Joback Method
tf	332.19	K	Joback Method
vc	0.692	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	447.62	J/molxK	578.32	Joback Method
cpg	463.86	J/molxK	610.90	Joback Method
cpg	479.37	J/molxK	643.48	Joback Method
cpg	494.16	J/molxK	676.06	Joback Method
cpg	508.24	J/molxK	708.64	Joback Method
cpg	521.59	J/molxK	741.22	Joback Method
cpg	534.23	J/molxK	773.80	Joback Method
dvisc	0.0011010	Paxs	332.19	Joback Method

dvisc	0.0006253	Paxs	373.21	Joback Method
dvisc	0.0003973	Paxs	414.23	Joback Method
dvisc	0.0002739	Paxs	455.25	Joback Method
dvisc	0.0002008	Paxs	496.28	Joback Method
dvisc	0.0001544	Paxs	537.30	Joback Method
dvisc	0.0001232	Paxs	578.32	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=R142937&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R142937&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>
<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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