

# 2,5-Dimethoxyethylbenzene

<b>Other names:</b>	Benzene, 2-ethyl-1,4-dimethoxy
<b>Inchi:</b>	InChI=1S/C10H14O2/c1-4-8-7-9(11-2)5-6-10(8)12-3/h5-7H,4H2,1-3H3
<b>InchiKey:</b>	CCZCWRUYUQRBPE-UHFFFAOYSA-N
<b>Formula:</b>	C10H14O2
<b>SMILES:</b>	CCc1cc(OC)ccc1OC
<b>Mol. weight [g/mol]:</b>	166.22
<b>CAS:</b>	1199-08-2

## Physical Properties

Property code	Value	Unit	Source
gf	-83.53	kJ/mol	Joback Method
hf	-300.58	kJ/mol	Joback Method
hfus	17.29	kJ/mol	Joback Method
hvap	46.27	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.266		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	2738.28	kPa	Joback Method
ripol	1861.00		NIST Webbook
tb	509.68	K	Joback Method
tc	713.56	K	Joback Method
tf	298.38	K	Joback Method
vc	0.523	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.17	J/molxK	509.68	Joback Method
cpg	368.93	J/molxK	679.58	Joback Method
cpg	357.50	J/molxK	645.60	Joback Method
cpg	345.51	J/molxK	611.62	Joback Method
cpg	332.95	J/molxK	577.64	Joback Method
cpg	319.83	J/molxK	543.66	Joback Method
cpg	379.79	J/molxK	713.56	Joback Method

dvisc	0.0001528	Paxs	509.68	Joback Method
dvisc	0.0001880	Paxs	474.46	Joback Method
dvisc	0.0002393	Paxs	439.25	Joback Method
dvisc	0.0003177	Paxs	404.03	Joback Method
dvisc	0.0004451	Paxs	368.81	Joback Method
dvisc	0.0006697	Paxs	333.60	Joback Method
dvisc	0.0011096	Paxs	298.38	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1199082&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1199082&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>ripol:</b>	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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