

# Benzene, 1,3-diphenoxy-

**Other names:**

Benzene, m-diphenoxy-  
m-Diphenoxybenzene  
m-Diphenyloxybenzene  
m-Phenoxyphenoxybenzene  
m-3F2E  
1,3-Diphenoxybenzene

**Inchi:**

InChI=1S/C18H14O2/c1-3-8-15(9-4-1)19-17-12-7-13-18(14-17)20-16-10-5-2-6-11-16/h1-

**InchiKey:**

JTNRGGLCSLZOOQ-UHFFFAOYSA-N

**Formula:**

C18H14O2

**SMILES:**

c1ccc(Oc2cccc(Oc3ccccc3)c2)cc1

**Mol. weight [g/mol]:**

262.30

**CAS:**

3379-38-2

## Physical Properties

Property code	Value	Unit	Source
gf	218.28	kJ/mol	Joback Method
hf	18.83	kJ/mol	Joback Method
hfus	26.49	kJ/mol	Joback Method
hvap	67.97	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	5.271		Crippen Method
mcvol	204.940	ml/mol	McGowan Method
pc	2495.01	kPa	Joback Method
tb	741.10	K	Joback Method
tc	1001.31	K	Joback Method
tf	428.86	K	Joback Method
vc	0.755	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.65	J/mol×K	741.10	Joback Method
cpg	617.09	J/mol×K	957.94	Joback Method
cpg	606.27	J/mol×K	914.57	Joback Method

cpg	594.08	J/molxK	871.20	Joback Method
cpg	580.46	J/molxK	827.84	Joback Method
cpg	565.34	J/molxK	784.47	Joback Method
cpg	626.62	J/molxK	1001.31	Joback Method
dvisc	0.0000761	Paxs	741.10	Joback Method
dvisc	0.0000962	Paxs	689.06	Joback Method
dvisc	0.0001264	Paxs	637.02	Joback Method
dvisc	0.0001742	Paxs	584.98	Joback Method
dvisc	0.0002557	Paxs	532.94	Joback Method
dvisc	0.0004077	Paxs	480.90	Joback Method
dvisc	0.0007282	Paxs	428.86	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=C3379382&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3379382&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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