

# Benzene, 1-methyl-2-phenoxy-

<b>Other names:</b>	Ether, phenyl o-tolyl o-Methylphenyl phenyl ether Phenyl o-tolyl ether 2-Methylphenyl phenyl ether 1-Methyl-2-phenoxybenzene o-phenoxytoluene
<b>Inchi:</b>	InChI=1S/C13H12O/c1-11-7-5-6-10-13(11)14-12-8-3-2-4-9-12/h2-10H,1H3
<b>InchiKey:</b>	WCOYPFBMFKXWBM-UHFFFAOYSA-N
<b>Formula:</b>	C13H12O
<b>SMILES:</b>	<chem>Cc1cccc1Oc1cccc1</chem>
<b>Mol. weight [g/mol]:</b>	184.23
<b>CAS:</b>	3991-61-5

## Physical Properties

Property code	Value	Unit	Source
gf	168.77	kJ/mol	Joback Method
hf	17.72	kJ/mol	Joback Method
hfus	18.31	kJ/mol	Joback Method
hvap	52.16	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	3.787		Crippen Method
mcvol	152.380	ml/mol	McGowan Method
pc	2966.57	kPa	Joback Method
tb	577.60	K	Joback Method
tc	819.70	K	Joback Method
tf	323.86	K	Joback Method
vc	0.566	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.29	J/mol×K	577.60	Joback Method
cpg	365.54	J/mol×K	617.95	Joback Method
cpg	380.63	J/mol×K	658.30	Joback Method

cpg	394.61	J/molxK	698.65	Joback Method
cpg	407.52	J/molxK	739.00	Joback Method
cpg	419.42	J/molxK	779.35	Joback Method
cpg	430.34	J/molxK	819.70	Joback Method
dvisc	0.0014893	Paxs	323.86	Joback Method
dvisc	0.0008203	Paxs	366.15	Joback Method
dvisc	0.0005112	Paxs	408.44	Joback Method
dvisc	0.0003482	Paxs	450.73	Joback Method
dvisc	0.0002533	Paxs	493.02	Joback Method
dvisc	0.0001937	Paxs	535.31	Joback Method
dvisc	0.0001541	Paxs	577.60	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3991615&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3991615&amp;Units=SI</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

Latest version available from:

<https://www.chemeo.com/cid/74-657-1/Benzene-1-methyl-2-phenoxy.pdf>

Generated by Cheméo on 2024-04-23 13:34:39.743940216 +0000 UTC m=+16168528.664517532.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.