

# Phenol, 3-phenoxy-

<b>Other names:</b>	3-Hydroxydiphenyl ether Phenol, m-phenoxy- m-Phenoxyphenol 3-Phenoxyphenol
<b>Inchi:</b>	InChI=1S/C12H10O2/c13-10-5-4-8-12(9-10)14-11-6-2-1-3-7-11/h1-9,13H
<b>InchiKey:</b>	HBUCPZGYBSEEHF-UHFFFAOYSA-N
<b>Formula:</b>	C12H10O2
<b>SMILES:</b>	Oc1cccc(Oc2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	186.21
<b>CAS:</b>	713-68-8

## Physical Properties

Property code	Value	Unit	Source
gf	15.36	kJ/mol	Joback Method
hf	-127.48	kJ/mol	Joback Method
hfus	21.89	kJ/mol	Joback Method
hvap	62.28	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	3.184		Crippen Method
mcvol	144.160	ml/mol	McGowan Method
pc	4026.13	kPa	Joback Method
rinpol	1731.00		NIST Webbook
tb	630.36	K	Joback Method
tc	886.36	K	Joback Method
tf	411.79	K	Joback Method
vc	0.475	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	352.76	J/molxK	630.36	Joback Method
cpg	366.38	J/molxK	673.03	Joback Method
cpg	378.88	J/molxK	715.69	Joback Method
cpg	390.37	J/molxK	758.36	Joback Method

cpg	400.97	J/molxK	801.02	Joback Method
cpg	410.81	J/molxK	843.69	Joback Method
cpg	420.01	J/molxK	886.36	Joback Method
dvisc	0.0007478	Paxs	411.79	Joback Method
dvisc	0.0003302	Paxs	448.22	Joback Method
dvisc	0.0001648	Paxs	484.65	Joback Method
dvisc	0.0000907	Paxs	521.08	Joback Method
dvisc	0.0000540	Paxs	557.50	Joback Method
dvisc	0.0000342	Paxs	593.93	Joback Method
dvisc	0.0000229	Paxs	630.36	Joback Method
hvapt	69.50	kJ/mol	455.00	NIST Webbook

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	458.20	K	1.60	NIST Webbook

## 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=C713688&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C713688&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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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