

# Phenol, 4-(methoxymethyl)-

<b>Other names:</b>	4-Methoxymethylphenol «alpha»-methoxy-p-cresol
<b>Inchi:</b>	InChI=1S/C8H10O2/c1-10-6-7-2-4-8(9)5-3-7/h2-5,9H,6H2,1H3
<b>InchiKey:</b>	AHXXIALEMINDAW-UHFFFAOYSA-N
<b>Formula:</b>	C8H10O2
<b>SMILES:</b>	COc1ccc(O)cc1
<b>Mol. weight [g/mol]:</b>	138.16
<b>CAS:</b>	5355-17-9

## Physical Properties

Property code	Value	Unit	Source
gf	-130.73	kJ/mol	Joback Method
hf	-281.45	kJ/mol	Joback Method
hfus	17.49	kJ/mol	Joback Method
hvap	51.10	kJ/mol	Joback Method
log10ws	-1.40		Crippen Method
logp	1.539		Crippen Method
mvol	111.560	ml/mol	McGowan Method
pc	4311.22	kPa	Joback Method
rinpol	1306.00		NIST Webbook
rinpol	1306.00		NIST Webbook
tb	512.16	K	Joback Method
tc	735.66	K	Joback Method
tf	340.29	K	Joback Method
vc	0.359	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.89	J/molxK	512.16	Joback Method
cpg	258.48	J/molxK	549.41	Joback Method
cpg	269.29	J/molxK	586.66	Joback Method
cpg	279.38	J/molxK	623.91	Joback Method
cpg	288.82	J/molxK	661.16	Joback Method

cpg	297.67	J/mol×K	698.41	Joback Method
cpg	305.97	J/mol×K	735.66	Joback Method
dvisc	0.0027165	Paxs	340.29	Joback Method
dvisc	0.0011593	Paxs	368.94	Joback Method
dvisc	0.0005594	Paxs	397.58	Joback Method
dvisc	0.0002977	Paxs	426.23	Joback Method
dvisc	0.0001715	Paxs	454.87	Joback Method
dvisc	0.0001055	Paxs	483.51	Joback Method
dvisc	0.0000685	Paxs	512.16	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=C5355179&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5355179&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>

## 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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