

# Benzene, 1-methoxy-4-(phenylmethyl)-

<b>Other names:</b>	Anisole, p-benzyl- p-Benzylanisole 1-Benzyl-4-methoxybenzene p-Methoxydiphenylmethane p-Methoxyphenylphenylmethane 4-Methoxydiphenylmethane
<b>Inchi:</b>	InChI=1S/C14H14O/c1-15-14-9-7-13(8-10-14)11-12-5-3-2-4-6-12/h2-10H,11H2,1H3
<b>InchiKey:</b>	GQLYCRTUQGSDSM-UHFFFAOYSA-N
<b>Formula:</b>	C14H14O
<b>SMILES:</b>	<chem>COc1ccc(Cc2ccccc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	198.26
<b>CAS:</b>	834-14-0

## Physical Properties

Property code	Value	Unit	Source
gf	177.19	kJ/mol	Joback Method
hf	-2.92	kJ/mol	Joback Method
hfus	20.90	kJ/mol	Joback Method
hvap	54.38	kJ/mol	Joback Method
ie	8.20 ± 0.05	eV	NIST Webbook
log10ws	-3.69		Crippen Method
logp	3.286		Crippen Method
mvol	166.470	ml/mol	McGowan Method
pc	2679.08	kPa	Joback Method
tb	565.00 ± 10.00	K	NIST Webbook
tc	837.55	K	Joback Method
tf	335.13	K	Joback Method
vc	0.622	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	397.75	J/mol×K	600.48	Joback Method
cpg	414.65	J/mol×K	639.99	Joback Method

cpg	430.37	J/molxK	679.50	Joback Method
cpg	444.95	J/molxK	719.01	Joback Method
cpg	458.45	J/molxK	758.53	Joback Method
cpg	470.90	J/molxK	798.04	Joback Method
cpg	482.36	J/molxK	837.55	Joback Method
dvisc	0.0014623	Paxs	335.13	Joback Method
dvisc	0.0007910	Paxs	379.36	Joback Method
dvisc	0.0004865	Paxs	423.58	Joback Method
dvisc	0.0003280	Paxs	467.81	Joback Method
dvisc	0.0002367	Paxs	512.03	Joback Method
dvisc	0.0001799	Paxs	556.25	Joback Method
dvisc	0.0001424	Paxs	600.48	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=C834140&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C834140&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>ie:</b>	Ionization energy
<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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