

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

<b>Other names:</b>	1-Sec-butyl-4-methoxybenzene Anisole, 4-sec-butyl 4-sec-Butylanisole
<b>Inchi:</b>	InChI=1S/C11H16O/c1-4-9(2)10-5-7-11(12-3)8-6-10/h5-9H,4H2,1-3H3
<b>InchiKey:</b>	SNFIOPFQNROLBN-UHFFFAOYSA-N
<b>Formula:</b>	C11H16O
<b>SMILES:</b>	CCC(C)c1ccc(OC)cc1
<b>Mol. weight [g/mol]:</b>	164.24
<b>CAS:</b>	4917-90-2

## Physical Properties

Property code	Value	Unit	Source
gf	37.08	kJ/mol	Joback Method
hf	-182.81	kJ/mol	Joback Method
hfus	15.56	kJ/mol	Joback Method
hvap	45.04	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.209		Crippen Method
mcvol	147.960	ml/mol	McGowan Method
pc	2584.59	kPa	Joback Method
rinpol	1254.00		NIST Webbook
rinpol	1236.00		NIST Webbook
rinpol	1254.00		NIST Webbook
ripol	1737.00		NIST Webbook
tb	504.72	K	Joback Method
tc	710.80	K	Joback Method
tf	259.90	K	Joback Method
vc	0.555	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.28	J/molxK	504.72	Joback Method
cpg	341.96	J/molxK	539.07	Joback Method

cpg	356.87	J/molxK	573.41	Joback Method
cpg	371.02	J/molxK	607.76	Joback Method
cpg	384.44	J/molxK	642.11	Joback Method
cpg	397.14	J/molxK	676.45	Joback Method
cpg	409.13	J/molxK	710.80	Joback Method
dvisc	0.0027032	Paxs	259.90	Joback Method
dvisc	0.0012429	Paxs	300.70	Joback Method
dvisc	0.0006880	Paxs	341.51	Joback Method
dvisc	0.0004321	Paxs	382.31	Joback Method
dvisc	0.0002969	Paxs	423.11	Joback Method
dvisc	0.0002179	Paxs	463.92	Joback Method
dvisc	0.0001681	Paxs	504.72	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=C4917902&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4917902&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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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