

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

<b>Other names:</b>	Anisole, p-isopropyl- p-Isopropylanisole p-Methoxycumene p-Methoxyisopropylbenzene 2-(p-Methoxyphenyl)propane 4-Isopropylanisole 1-Isopropyl-4-methoxybenzene
<b>Inchi:</b>	InChI=1S/C10H14O/c1-8(2)9-4-6-10(11-3)7-5-9/h4-8H,1-3H3
<b>InchiKey:</b>	JULZQKLZSNOEEJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H14O
<b>SMILES:</b>	COc1ccc(C(C)C)cc1
<b>Mol. weight [g/mol]:</b>	150.22
<b>CAS:</b>	4132-48-3

## Physical Properties

Property code	Value	Unit	Source
gf	28.66	kJ/mol	Joback Method
hf	-162.17	kJ/mol	Joback Method
hfus	12.97	kJ/mol	Joback Method
hvap	42.81	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.819		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	2856.62	kPa	Joback Method
tb	481.84	K	Joback Method
tc	690.94	K	Joback Method
tf	248.63	K	Joback Method
vc	0.499	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.84	J/mol×K	481.84	Joback Method
cpg	296.54	J/mol×K	516.69	Joback Method

cpg	310.53	J/mol×K	551.54	Joback Method
cpg	323.81	J/mol×K	586.39	Joback Method
cpg	336.41	J/mol×K	621.24	Joback Method
cpg	348.34	J/mol×K	656.09	Joback Method
cpg	359.60	J/mol×K	690.94	Joback Method
dvisc	0.0026779	Paxs	248.63	Joback Method
dvisc	0.0012548	Paxs	287.50	Joback Method
dvisc	0.0007043	Paxs	326.37	Joback Method
dvisc	0.0004470	Paxs	365.24	Joback Method
dvisc	0.0003097	Paxs	404.10	Joback Method
dvisc	0.0002288	Paxs	442.97	Joback Method
dvisc	0.0001775	Paxs	481.84	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=C4132483&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4132483&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>mccvol:</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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