

# Benzene, 1,5-dibromo-2-methoxy-4-methyl-

<b>Other names:</b>	2,4-Dibromo-5-methylanisole
<b>Inchi:</b>	InChI=1S/C8H8Br2O/c1-5-3-8(11-2)7(10)4-6(5)9/h3-4H,1-2H3
<b>InchiKey:</b>	CDLNHQVKSMDSAI-UHFFFAOYSA-N
<b>Formula:</b>	C8H8Br2O
<b>SMILES:</b>	<chem>COc1cc(C)c(Br)cc1Br</chem>
<b>Mol. weight [g/mol]:</b>	279.96
<b>CAS:</b>	5456-94-0

## Physical Properties

Property code	Value	Unit	Source
gf	23.64	kJ/mol	Joback Method
hf	-85.89	kJ/mol	Joback Method
hfus	21.11	kJ/mol	Joback Method
hvap	52.94	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.529		Crippen Method
mcvol	140.690	ml/mol	McGowan Method
pc	4010.84	kPa	Joback Method
tb	578.80	K	Joback Method
tc	823.29	K	Joback Method
tf	385.73	K	Joback Method
vc	0.517	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.05	J/molxK	578.80	Joback Method
cpg	275.00	J/molxK	619.55	Joback Method
cpg	284.33	J/molxK	660.30	Joback Method
cpg	293.08	J/molxK	701.04	Joback Method
cpg	301.25	J/molxK	741.79	Joback Method
cpg	308.88	J/molxK	782.54	Joback Method
cpg	315.97	J/molxK	823.29	Joback Method
dvisc	0.0009260	Paxs	385.73	Joback Method

dvisc	0.0006682	Paxs	417.91	Joback Method
dvisc	0.0005051	Paxs	450.09	Joback Method
dvisc	0.0003964	Paxs	482.26	Joback Method
dvisc	0.0003207	Paxs	514.44	Joback Method
dvisc	0.0002659	Paxs	546.62	Joback Method
dvisc	0.0002252	Paxs	578.80	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=C5456940&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5456940&amp;Units=SI</a>
<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>

## 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>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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