

# Benzene, 1-bromo-4-(methylthio)-

<b>Other names:</b>	p-Bromo(methylthio)benzene 1-Bromo-4-(methylthio)benzene 4-Bromo(methylthio)benzene p-Bromophenyl methyl sulfide 4-Bromophenyl methyl sulfide p-Bromothioanisole 4-Bromothioanisole p-(Methylthio)phenyl bromide Sulfide, p-bromophenyl methyl Methyl 4-bromophenylsulfide NSC 73383 4-bromophenyl methyl sulphide
<b>Inchi:</b>	InChI=1S/C7H7BrS/c1-9-7-4-2-6(8)3-5-7/h2-5H,1H3
<b>InchiKey:</b>	YEUYZNNBXLFCW-UHFFFAOYSA-N
<b>Formula:</b>	C7H7BrS
<b>SMILES:</b>	CSc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	203.10
<b>CAS:</b>	104-95-0

## Physical Properties

Property code	Value	Unit	Source
gf	158.28	kJ/mol	Joback Method
hf	105.45	kJ/mol	Joback Method
hfus	16.95	kJ/mol	Joback Method
hvap	47.37	kJ/mol	Joback Method
ie	7.80	eV	NIST Webbook
ie	8.17 ± 0.05	eV	NIST Webbook
ie	7.50	eV	NIST Webbook
log10ws	-3.38		Crippen Method
logp	3.171		Crippen Method
mcvol	119.580	ml/mol	McGowan Method
pc	4516.42	kPa	Joback Method
tb	528.00	K	NIST Webbook
tc	784.10	K	Joback Method
tf	312.00 ± 1.00	K	NIST Webbook
vc	0.435	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	214.93	J/mol×K	526.16	Joback Method
cpg	225.61	J/mol×K	569.15	Joback Method
cpg	235.48	J/mol×K	612.14	Joback Method
cpg	244.59	J/mol×K	655.13	Joback Method
cpg	252.98	J/mol×K	698.12	Joback Method
cpg	260.67	J/mol×K	741.11	Joback Method
cpg	267.71	J/mol×K	784.10	Joback Method

## Sources

<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=C104950&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C104950&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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

**vc:** Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/24-605-3/Benzene-1-bromo-4-methylthio.pdf>

Generated by Cheméo on 2024-04-25 22:11:31.609056593 +0000 UTC m=+16372340.529633909.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.