

# 4-Bromo-3-nitrotoluene

<b>Other names:</b>	Benzene, 1-bromo-4-methyl-2-nitro-
<b>Inchi:</b>	InChI=1S/C7H6BrNO2/c1-5-2-3-6(8)7(4-5)9(10)11/h2-4H,1H3
<b>InchiKey:</b>	UPBUTKQMDPHQAQ-UHFFFAOYSA-N
<b>Formula:</b>	C7H6BrNO2
<b>SMILES:</b>	<chem>Cc1ccc(Br)c([N+](=O)[O-])c1</chem>
<b>Mol. weight [g/mol]:</b>	216.03
<b>CAS:</b>	5326-34-1

## Physical Properties

Property code	Value	Unit	Source
gf	151.08	kJ/mol	Joback Method
hf	41.35	kJ/mol	Joback Method
hfus	23.79	kJ/mol	Joback Method
hvap	57.80	kJ/mol	Joback Method
log10ws	-3.76		Crippen Method
logp	2.666		Crippen Method
mcvol	120.650	ml/mol	McGowan Method
pc	4397.41	kPa	Joback Method
tb	614.20	K	Joback Method
tc	879.26	K	Joback Method
tf	423.52	K	Joback Method
vc	0.464	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	249.82	J/mol×K	614.20	Joback Method
cpg	259.45	J/mol×K	658.38	Joback Method
cpg	268.29	J/mol×K	702.55	Joback Method
cpg	276.39	J/mol×K	746.73	Joback Method
cpg	283.80	J/mol×K	790.91	Joback Method
cpg	290.58	J/mol×K	835.09	Joback Method
cpg	296.77	J/mol×K	879.26	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=C5326341&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5326341&amp;Units=SI</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>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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