

# Naphthalene, 1-bromo-4-methyl-

<b>Other names:</b>	1-Bromo-4-methylnaphthalene 4-Bromo-1-methylnaphthalene 4-Methyl-1-bromonaphthalene
<b>Inchi:</b>	InChI=1S/C11H9Br/c1-8-6-7-11(12)10-5-3-2-4-9(8)10/h2-7H,1H3
<b>InchiKey:</b>	IDRVLLRKA AHOBP-UHFFFAOYSA-N
<b>Formula:</b>	C11H9Br
<b>SMILES:</b>	Cc1ccc(Br)c2cccc12
<b>Mol. weight [g/mol]:</b>	221.09
<b>CAS:</b>	6627-78-7

## Physical Properties

Property code	Value	Unit	Source
gf	255.86	kJ/mol	Joback Method
hf	160.62	kJ/mol	Joback Method
hfus	19.81	kJ/mol	Joback Method
hvap	51.75	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	3.911		Crippen Method
mcvol	140.130	ml/mol	McGowan Method
pc	3633.35	kPa	Joback Method
tb	572.86	K	Joback Method
tc	824.00	K	Joback Method
tf	357.69	K	Joback Method
vc	0.527	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.04	J/molxK	572.86	Joback Method
cpg	300.64	J/molxK	614.72	Joback Method
cpg	312.21	J/molxK	656.57	Joback Method
cpg	322.86	J/molxK	698.43	Joback Method
cpg	332.67	J/molxK	740.29	Joback Method
cpg	341.73	J/molxK	782.15	Joback Method

cpg	350.15	J/molxK	824.00	Joback Method
dvisc	0.0013744	Paxs	357.69	Joback Method
dvisc	0.0009960	Paxs	393.55	Joback Method
dvisc	0.0007616	Paxs	429.41	Joback Method
dvisc	0.0006070	Paxs	465.27	Joback Method
dvisc	0.0004997	Paxs	501.14	Joback Method
dvisc	0.0004222	Paxs	537.00	Joback Method
dvisc	0.0003644	Paxs	572.86	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	436.20	K	1.60	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6627787&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6627787&amp;Units=SI</a>
<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>

## 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

**tbrp:** Boiling point at reduced pressure  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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