Naphthalene, 1-bromo-2-methyl-

Other names:	1-Bromo-2-methylnaphthalene
	«beta»-Methyl-«alpha»-bromonaphthalene
	2-Methyl-1-bromonaphthalene
Inchi:	InChI=1S/C11H9Br/c1-8-6-7-9-4-2-3-5-10(9)11(8)12/h2-7H,1H3
InchiKey:	CMIMBQIBIZZZHQ-UHFFFAOYSA-N
Formula:	C11H9Br
SMILES:	Cc1ccc2ccccc2c1Br
Mol. weight [g/mol]:	221.09
CAS:	2586-62-1

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	569.20	K	NIST Webbook
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/mol×K	572.86	Joback Method
cpg	300.64	J/mol×K	614.72	Joback Method
cpg	312.21	J/mol×K	656.57	Joback Method
cpg	322.86	J/mol×K	698.43	Joback Method
cpg	332.67	J/mol×K	740.29	Joback Method
cpg	341.73	J/mol×K	782.15	Joback Method

cpg	350.15	J/mol×K	824.00	Joback Method
dvisc	0.0013744	Pa×s	357.69	Joback Method
dvisc	0.0009960	Pa×s	393.55	Joback Method
dvisc	0.0007616	Pa×s	429.41	Joback Method
dvisc	0.0006070	Pa×s	465.27	Joback Method
dvisc	0.0004997	Pa×s	501.14	Joback Method
dvisc	0.0004222	Pa×s	537.00	Joback Method
dvisc	0.0003644	Pa×s	572.86	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	430.00	K	2.00	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2586621&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
tb: 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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