Naphthalene, 2-(bromomethyl)-

Other names:	«beta»-(Bromomethyl)naphthalene
	2-(Bromomethyl)naphthalene
	2-Menaphthyl bromide
	«beta»-Naphthylmethyl bromide
	2-Naphthylmethyl bromide
Inchi:	InChI=1S/C11H9Br/c12-8-9-5-6-10-3-1-2-4-11(10)7-9/h1-7H,8H2
InchiKey:	RUHJZSZTSCSTCC-UHFFFAOYSA-N
Formula:	C11H9Br
SMILES:	BrCc1ccc2ccccc2c1
Mol. weight [g/mol]:	221.09
CAS:	939-26-4

Physical Properties

Property code	Value	Unit	Source
gf	265.49	kJ/mol	Joback Method
hf	172.09	kJ/mol	Joback Method
hfus	20.20	kJ/mol	Joback Method
hvap	51.09	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	3.735		Crippen Method
mcvol	140.130	ml/mol	McGowan Method
pc	3699.95	kPa	Joback Method
tb	567.88	K	Joback Method
tc	817.91	K	Joback Method
tf	345.17	K	Joback Method
vc	0.527	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.89	J/mol×K	567.88	Joback Method
cpg	343.62	J/mol×K	776.24	Joback Method
cpg	334.46	J/mol×K	734.57	Joback Method
cpg	324.51	J/mol×K	692.89	Joback Method

cpg	313.67	J/mol×K	651.22	Joback Method
cpg	301.83	J/mol×K	609.55	Joback Method
cpg	352.09	J/mol×K	817.91	Joback Method
dvisc	0.0003701	Pa×s	567.88	Joback Method
dvisc	0.0004352	Pa×s	530.76	Joback Method
dvisc	0.0005243	Pa×s	493.64	Joback Method
dvisc	0.0006512	Pa×s	456.52	Joback Method
dvisc	0.0008404	Pa×s	419.41	Joback Method
dvisc	0.0011396	Pa×s	382.29	Joback Method
dvisc	0.0016500	Pa×s	345.17	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	486.20	K	13.30	NIST Webbook

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C939264&Units=SI

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