

# 9H-Fluorene, 2-bromo-

<b>Other names:</b>	2-Bromofluorene 2-bromo-9H-fluorene
<b>Inchi:</b>	InChI=1S/C13H9Br/c14-11-5-6-13-10(8-11)7-9-3-1-2-4-12(9)13/h1-6,8H,7H2
<b>InchiKey:</b>	FXSCJZNMWILAJ0-UHFFFAOYSA-N
<b>Formula:</b>	C13H9Br
<b>SMILES:</b>	<chem>Brc1ccc2c(c1)Cc1cccc1-2</chem>
<b>Mol. weight [g/mol]:</b>	245.12
<b>CAS:</b>	1133-80-8

## Physical Properties

Property code	Value	Unit	Source
gf	361.49	kJ/mol	Joback Method
hf	258.79	kJ/mol	Joback Method
hfus	22.89	kJ/mol	Joback Method
hvap	57.38	kJ/mol	Joback Method
log10ws	-5.58		Crippen Method
logp	4.020		Crippen Method
mvol	153.150	ml/mol	McGowan Method
pc	3598.56	kPa	Joback Method
tb	634.17	K	Joback Method
tc	896.09	K	Joback Method
tf	415.69	K	Joback Method
vc	0.584	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	340.74	J/molxK	634.17	Joback Method
cpg	393.86	J/molxK	852.44	Joback Method
cpg	384.77	J/molxK	808.78	Joback Method
cpg	375.09	J/molxK	765.13	Joback Method
cpg	364.63	J/molxK	721.48	Joback Method
cpg	353.24	J/molxK	677.82	Joback Method
cpg	402.53	J/molxK	896.09	Joback Method

dvisc	0.0007071	Paxs	634.17	Joback Method
dvisc	0.0007812	Paxs	597.76	Joback Method
dvisc	0.0008743	Paxs	561.34	Joback Method
dvisc	0.0009939	Paxs	524.93	Joback Method
dvisc	0.0011517	Paxs	488.52	Joback Method
dvisc	0.0013665	Paxs	452.10	Joback Method
dvisc	0.0016708	Paxs	415.69	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	458.20	K	18.00	NIST Webbook
tbrp	431.50 ± 1.50	K	0.10	NIST Webbook

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1133808&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1133808&amp;Units=SI</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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