

# Naphthalene, 2-fluoro-

<b>Other names:</b>	«beta»-Fluoronaphthalene 2-Fluoronaphthalene
<b>Inchi:</b>	InChI=1S/C10H7F/c11-10-6-5-8-3-1-2-4-9(8)7-10/h1-7H
<b>InchiKey:</b>	BAGQBTMEEISJLK-UHFFFAOYSA-N
<b>Formula:</b>	C10H7F
<b>SMILES:</b>	Fc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	146.16
<b>CAS:</b>	323-09-1

## Physical Properties

Property code	Value	Unit	Source
gf	47.94	kJ/mol	Joback Method
hf	-29.71	kJ/mol	Joback Method
hfus	15.41	kJ/mol	Joback Method
hvap	41.61	kJ/mol	Joback Method
ie	8.23	eV	NIST Webbook
log10ws	-3.61		Crippen Method
logp	2.979		Crippen Method
mcvol	110.310	ml/mol	McGowan Method
pc	3620.24	kPa	Joback Method
tb	478.11	K	Joback Method
tc	704.04	K	Joback Method
tf	274.69	K	Joback Method
vc	0.427	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	218.17	J/molxK	478.11	Joback Method
cpg	230.76	J/molxK	515.77	Joback Method
cpg	242.41	J/molxK	553.42	Joback Method
cpg	253.16	J/molxK	591.08	Joback Method
cpg	263.09	J/molxK	628.73	Joback Method
cpg	272.26	J/molxK	666.39	Joback Method

cpg	280.72	J/mol×K	704.04	Joback Method
cps	190.00	J/mol×K	250.00	NIST Webbook

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	484.70	K	98.30	NIST Webbook
tbrp	363.20	K	2.10	NIST Webbook

## Sources

<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=C323091&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C323091&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase 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>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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