

# 9H-Fluorene, 2-methyl-

<b>Other names:</b>	Fluorene, 2-methyl- 2-Methylfluorene
<b>Inchi:</b>	InChI=1S/C14H12/c1-10-6-7-14-12(8-10)9-11-4-2-3-5-13(11)14/h2-8H,9H2,1H3
<b>InchiKey:</b>	RKJHJMAZNPASHY-UHFFFAOYSA-N
<b>Formula:</b>	C14H12
<b>SMILES:</b>	<chem>Cc1ccc2c(c1)Cc1cccc1-2</chem>
<b>Mol. weight [g/mol]:</b>	180.25
<b>CAS:</b>	1430-97-3

## Physical Properties

Property code	Value	Unit	Source
gf	355.59	kJ/mol	Joback Method
hf	211.82	kJ/mol	Joback Method
hfus	20.20	kJ/mol	Joback Method
hvap	53.17	kJ/mol	Joback Method
log10ws	-4.90		Crippen Method
logp	3.566		Crippen Method
mcvol	149.740	ml/mol	McGowan Method
pc	2979.54	kPa	Joback Method
rinpol	1676.00		NIST Webbook
rinpol	288.21		NIST Webbook
rinpol	288.95		NIST Webbook
rinpol	289.03		NIST Webbook
rinpol	287.89		NIST Webbook
rinpol	1694.80		NIST Webbook
rinpol	1712.70		NIST Webbook
rinpol	1673.00		NIST Webbook
rinpol	1673.00		NIST Webbook
rinpol	1720.00		NIST Webbook
rinpol	1684.00		NIST Webbook
rinpol	287.75		NIST Webbook
rinpol	288.70		NIST Webbook
rinpol	288.21		NIST Webbook
rinpol	287.70		NIST Webbook
rinpol	288.09		NIST Webbook
rinpol	288.78		NIST Webbook
rinpol	287.28		NIST Webbook

rmpol	286.72		NIST Webbook
rmpol	288.87		NIST Webbook
rmpol	288.50		NIST Webbook
rmpol	288.29		NIST Webbook
rmpol	288.42		NIST Webbook
rmpol	288.21		NIST Webbook
rmpol	277.20		NIST Webbook
rmpol	288.28		NIST Webbook
rmpol	288.28		NIST Webbook
rmpol	288.29		NIST Webbook
rmpol	288.42		NIST Webbook
rmpol	288.40		NIST Webbook
rmpol	287.70		NIST Webbook
rmpol	288.20		NIST Webbook
rmpol	287.70		NIST Webbook
rmpol	288.21		NIST Webbook
rmpol	287.50		NIST Webbook
rmpol	288.40		NIST Webbook
rmpol	288.22		NIST Webbook
rmpol	288.21		NIST Webbook
rmpol	1676.00		NIST Webbook
tb	591.20	K	NIST Webbook
tc	834.31	K	Joback Method
tf	367.16	K	Joback Method
vc	0.578	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	352.92	J/molxK	590.89	Joback Method
cpg	367.90	J/molxK	631.46	Joback Method
cpg	381.68	J/molxK	672.03	Joback Method
cpg	394.39	J/molxK	712.60	Joback Method
cpg	406.16	J/molxK	753.17	Joback Method
cpg	417.12	J/molxK	793.74	Joback Method
cpg	427.40	J/molxK	834.31	Joback Method
dvisc	0.0013988	Paxs	367.16	Joback Method
dvisc	0.0011308	Paxs	404.45	Joback Method
dvisc	0.0009476	Paxs	441.74	Joback Method
dvisc	0.0008162	Paxs	479.02	Joback Method
dvisc	0.0007184	Paxs	516.31	Joback Method

dvisc	0.0006433	Paxs	553.60	Joback Method
dvisc	0.0005841	Paxs	590.89	Joback Method

## Sources

<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=C1430973&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1430973&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>

## 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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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