

# 9H-Fluorene, 2,3-dimethyl-

<b>Other names:</b>	Fluorene, 2,3-dimethyl- 2,3-Dimethylfluorene 2,3-Dimethyl-9H-fluorene
<b>Inchi:</b>	InChI=1S/C15H14/c1-10-7-13-9-12-5-3-4-6-14(12)15(13)8-11(10)2/h3-8H,9H2,1-2H3
<b>InchiKey:</b>	WZKBKKCKPZMGHV-UHFFFAOYSA-N
<b>Formula:</b>	C15H14
<b>SMILES:</b>	<chem>Cc1cc2c(cc1C)-c1cccc1C2</chem>
<b>Mol. weight [g/mol]:</b>	194.27
<b>CAS:</b>	4612-63-9

## Physical Properties

Property code	Value	Unit	Source
gf	354.38	kJ/mol	Joback Method
hf	179.71	kJ/mol	Joback Method
hfus	22.40	kJ/mol	Joback Method
hvap	56.06	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	3.875		Crippen Method
mcvol	163.830	ml/mol	McGowan Method
pc	2648.83	kPa	Joback Method
rinpol	307.30		NIST Webbook
rinpol	300.04		NIST Webbook
rinpol	307.30		NIST Webbook
tb	618.75	K	Joback Method
tc	858.02	K	Joback Method
tf	390.95	K	Joback Method
vc	0.633	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	400.47	J/mol×K	618.75	Joback Method
cpg	467.17	J/mol×K	818.14	Joback Method
cpg	455.59	J/mol×K	778.26	Joback Method

cpg	443.25	J/molxK	738.38	Joback Method
cpg	430.02	J/molxK	698.51	Joback Method
cpg	415.80	J/molxK	658.63	Joback Method
cpg	478.10	J/molxK	858.02	Joback Method
dvisc	0.0005695	Paxs	618.75	Joback Method
dvisc	0.0006256	Paxs	580.78	Joback Method
dvisc	0.0006964	Paxs	542.82	Joback Method
dvisc	0.0007878	Paxs	504.85	Joback Method
dvisc	0.0009092	Paxs	466.88	Joback Method
dvisc	0.0010762	Paxs	428.92	Joback Method
dvisc	0.0013164	Paxs	390.95	Joback Method

## 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=C4612639&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4612639&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>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

Latest version available from:

<https://www.chemeo.com/cid/59-513-7/9H-Fluorene-2-3-dimethyl.pdf>

Generated by Cheméo on 2024-04-19 22:16:37.421037606 +0000 UTC m=+15854246.341614921.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.