

# 9H-Fluorene, 9-(1-methylethyl)-

<b>Other names:</b>	9-(1-Methylethyl)-9H-fluorene 9-Isopropylfluorene Fluorene, 9-isopropyl- 9-Isopropyl-9H-fluorene
<b>Inchi:</b>	InChI=1S/C16H16/c1-11(2)16-14-9-5-3-7-12(14)13-8-4-6-10-15(13)16/h3-11,16H,1-2H3
<b>InchiKey:</b>	HOJPTYYFGWUDJX-UHFFFAOYSA-N
<b>Formula:</b>	C16H16
<b>SMILES:</b>	CC(C)C1c2ccccc2-c2ccccc21
<b>Mol. weight [g/mol]:</b>	208.30
<b>CAS:</b>	3299-99-8

## Physical Properties

Property code	Value	Unit	Source
gf	371.91	kJ/mol	Joback Method
hf	156.39	kJ/mol	Joback Method
hfus	23.31	kJ/mol	Joback Method
hvap	56.27	kJ/mol	Joback Method
log10ws	-5.40		Crippen Method
logp	4.455		Crippen Method
mcvol	177.920	ml/mol	McGowan Method
pc	2417.12	kPa	Joback Method
rinpol	276.40		NIST Webbook
rinpol	274.00		NIST Webbook
tb	626.56	K	Joback Method
tc	864.15	K	Joback Method
tf	357.94	K	Joback Method
vc	0.682	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.11	J/molxK	626.56	Joback Method
cpg	471.43	J/molxK	666.16	Joback Method
cpg	487.46	J/molxK	705.76	Joback Method

cpg	502.32	J/molxK	745.36	Joback Method
cpg	516.13	J/molxK	784.95	Joback Method
cpg	529.03	J/molxK	824.55	Joback Method
cpg	541.13	J/molxK	864.15	Joback Method
dvisc	0.0016916	Paxs	357.94	Joback Method
dvisc	0.0012884	Paxs	402.71	Joback Method
dvisc	0.0010363	Paxs	447.48	Joback Method
dvisc	0.0008672	Paxs	492.25	Joback Method
dvisc	0.0007475	Paxs	537.02	Joback Method
dvisc	0.0006593	Paxs	581.79	Joback Method
dvisc	0.0005920	Paxs	626.56	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=C3299998&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3299998&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/39-844-2/9H-Fluorene-9-1-methylethyl.pdf>

Generated by Cheméo on 2024-04-25 20:20:40.399557963 +0000 UTC m=+16365689.320135275.

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