

# Fluoranthene, 1-methyl

<b>Inchi:</b>	InChI=1S/C17H12/c1-11-9-10-12-5-4-8-15-13-6-2-3-7-14(13)16(11)17(12)15/h2-10H,1H3
<b>InchiKey:</b>	XTJQJDCUHQJGCGX-UHFFFAOYSA-N
<b>Formula:</b>	C17H12
<b>SMILES:</b>	Cc1ccc2cccc3c2c1-c1cccc1-3
<b>Mol. weight [g/mol]:</b>	216.28

## Physical Properties

Property code	Value	Unit	Source
gf	489.97	kJ/mol	Joback Method
hf	335.66	kJ/mol	Joback Method
hfus	26.70	kJ/mol	Joback Method
hvap	61.98	kJ/mol	Joback Method
log10ws	-7.20		Crippen Method
logp	4.796		Crippen Method
mvol	172.550	ml/mol	McGowan Method
pc	2726.86	kPa	Joback Method
rinpol	366.64		NIST Webbook
rinpol	366.64		NIST Webbook
tb	679.22	K	Joback Method
tc	930.34	K	Joback Method
tf	449.71	K	Joback Method
vc	0.675	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.75	J/molxK	679.22	Joback Method
cpg	449.48	J/molxK	721.07	Joback Method
cpg	462.19	J/molxK	762.93	Joback Method
cpg	474.06	J/molxK	804.78	Joback Method
cpg	485.29	J/molxK	846.63	Joback Method
cpg	496.08	J/molxK	888.49	Joback Method
cpg	506.62	J/molxK	930.34	Joback Method
dvisc	0.0019946	Paxs	449.71	Joback Method

dvisc	0.0018069	Paxs	487.96	Joback Method
dvisc	0.0016605	Paxs	526.21	Joback Method
dvisc	0.0015435	Paxs	564.47	Joback Method
dvisc	0.0014482	Paxs	602.72	Joback Method
dvisc	0.0013691	Paxs	640.97	Joback Method
dvisc	0.0013026	Paxs	679.22	Joback Method

## Sources

<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=R565325&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R565325&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>

## 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

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