

# 11-Methylbenzo(a)fluorene

<b>Other names:</b>	Benzo[a]fluorene, 11-methyl
<b>Inchi:</b>	InChI=1S/C18H14/c1-12-14-7-4-5-9-16(14)17-11-10-13-6-2-3-8-15(13)18(12)17/h2-12H,
<b>InchiKey:</b>	WQPWQWSJGFCJBF-UHFFFAOYSA-N
<b>Formula:</b>	C18H14
<b>SMILES:</b>	CC1c2ccccc2-c2ccc3ccccc3c21
<b>Mol. weight [g/mol]:</b>	230.30
<b>CAS:</b>	71265-25-3

## Physical Properties

Property code	Value	Unit	Source
gf	488.21	kJ/mol	Joback Method
hf	299.99	kJ/mol	Joback Method
hfus	28.64	kJ/mol	Joback Method
hvap	63.41	kJ/mol	Joback Method
log10ws	-6.61		Crippen Method
logp	4.972		Crippen Method
mcvol	186.640	ml/mol	McGowan Method
pc	2490.03	kPa	Joback Method
rinpol	367.04		NIST Webbook
rinpol	367.04		NIST Webbook
tb	696.72	K	Joback Method
tc	949.69	K	Joback Method
tf	440.70	K	Joback Method
vc	0.723	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	492.99	J/molxK	696.72	Joback Method
cpg	508.78	J/molxK	738.88	Joback Method
cpg	523.37	J/molxK	781.04	Joback Method
cpg	536.96	J/molxK	823.20	Joback Method
cpg	549.72	J/molxK	865.36	Joback Method
cpg	561.86	J/molxK	907.53	Joback Method

cpg	573.55	J/molxK	949.69	Joback Method
dvisc	0.0019507	Paxs	440.70	Joback Method
dvisc	0.0017029	Paxs	483.37	Joback Method
dvisc	0.0015197	Paxs	526.04	Joback Method
dvisc	0.0013796	Paxs	568.71	Joback Method
dvisc	0.0012694	Paxs	611.38	Joback Method
dvisc	0.0011808	Paxs	654.05	Joback Method
dvisc	0.0011081	Paxs	696.72	Joback Method

## 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=C71265253&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C71265253&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>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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