

# 9-Ethyl-10-methylanthracene

<b>Other names:</b>	Anthracene, 9-ethyl-10-methyl
<b>Inchi:</b>	InChI=1S/C17H16/c1-3-13-16-10-6-4-8-14(16)12(2)15-9-5-7-11-17(13)15/h4-11H,3H2,1-
<b>InchiKey:</b>	KLSBNPSLEGBUSK-UHFFFAOYSA-N
<b>Formula:</b>	C17H16
<b>SMILES:</b>	CCc1c2ccccc2c(C)c2ccccc12
<b>Mol. weight [g/mol]:</b>	220.31
<b>CAS:</b>	19713-49-6

## Physical Properties

Property code	Value	Unit	Source
gf	389.08	kJ/mol	Joback Method
hf	190.05	kJ/mol	Joback Method
hfus	26.70	kJ/mol	Joback Method
hvap	60.98	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	4.864		Crippen Method
mcvol	187.710	ml/mol	McGowan Method
pc	2324.78	kPa	Joback Method
tb	667.94	K	Joback Method
tc	907.34	K	Joback Method
tf	410.73	K	Joback Method
vc	0.724	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	480.42	J/molxK	667.94	Joback Method
cpg	496.53	J/molxK	707.84	Joback Method
cpg	511.50	J/molxK	747.74	Joback Method
cpg	525.45	J/molxK	787.64	Joback Method
cpg	538.48	J/molxK	827.54	Joback Method
cpg	550.72	J/molxK	867.44	Joback Method
cpg	562.29	J/molxK	907.34	Joback Method
dvisc	0.0012598	Paxs	410.73	Joback Method

dvisc	0.0009568	Paxs	453.60	Joback Method
dvisc	0.0007620	Paxs	496.47	Joback Method
dvisc	0.0006292	Paxs	539.34	Joback Method
dvisc	0.0005345	Paxs	582.20	Joback Method
dvisc	0.0004643	Paxs	625.07	Joback Method
dvisc	0.0004106	Paxs	667.94	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=C19713496&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19713496&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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