

# Benz(a)anthracene, 7-ethyl-12-methyl-

<b>Other names:</b>	7-Ethyl-12-methylbenz(a)anthracene
<b>Inchi:</b>	InChI=1S/C21H18/c1-3-16-19-11-7-6-9-17(19)14(2)21-18-10-5-4-8-15(18)12-13-20(16)2
<b>InchiKey:</b>	KGHAOMPXHGIAL-UHFFFAOYSA-N
<b>Formula:</b>	C21H18
<b>SMILES:</b>	CCc1c2cccc2c(C)c2c1ccc1cccc12
<b>Mol. weight [g/mol]:</b>	270.37
<b>CAS:</b>	16354-50-0

## Physical Properties

Property code	Value	Unit	Source
gf	519.78	kJ/mol	Joback Method
hf	287.09	kJ/mol	Joback Method
hfus	33.69	kJ/mol	Joback Method
hvap	72.18	kJ/mol	Joback Method
log10ws	-8.16		Crippen Method
logp	6.017		Crippen Method
mcvol	224.610	ml/mol	McGowan Method
pc	2014.51	kPa	Joback Method
tb	783.42	K	Joback Method
tc	1031.24	K	Joback Method
tf	501.03	K	Joback Method
vc	0.870	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	625.02	J/molxK	783.42	Joback Method
cpg	696.57	J/molxK	989.94	Joback Method
cpg	683.49	J/molxK	948.64	Joback Method
cpg	669.98	J/molxK	907.33	Joback Method
cpg	655.84	J/molxK	866.03	Joback Method
cpg	640.91	J/molxK	824.72	Joback Method
cpg	709.36	J/molxK	1031.24	Joback Method
dvisc	0.0006104	Paxs	783.42	Joback Method

dvisc	0.0006744	Paxs	736.36	Joback Method
dvisc	0.0007555	Paxs	689.29	Joback Method
dvisc	0.0008604	Paxs	642.23	Joback Method
dvisc	0.0010003	Paxs	595.16	Joback Method
dvisc	0.0011934	Paxs	548.10	Joback Method
dvisc	0.0014719	Paxs	501.03	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=C16354500&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16354500&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>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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