

# 7-benz[de]anthrene

<b>Inchi:</b>	InChI=1S/C17H12O/c18-17-14-8-2-1-7-12(14)13-9-3-5-11-6-4-10-15(17)16(11)13/h1-8,1
<b>InchiKey:</b>	YCDFFWNIVSTH MV-UHFFFAOYSA-N
<b>Formula:</b>	C17H12O
<b>SMILES:</b>	O=C1c2ccccc2C2CC=Cc3cccc1c32
<b>Mol. weight [g/mol]:</b>	232.28

## Physical Properties

Property code	Value	Unit	Source
gf	336.87	kJ/mol	Joback Method
hf	136.62	kJ/mol	Joback Method
hfus	24.73	kJ/mol	Joback Method
hvap	64.48	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	3.780		Crippen Method
mcvol	178.420	ml/mol	McGowan Method
pc	2787.66	kPa	Joback Method
rinpol	406.54		NIST Webbook
rinpol	406.54		NIST Webbook
rinpol	406.54		NIST Webbook
tb	737.52	K	Joback Method
tc	1003.88	K	Joback Method
tf	484.37	K	Joback Method
vc	0.688	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	491.65	J/mol×K	737.52	Joback Method
cpg	507.20	J/mol×K	781.91	Joback Method
cpg	521.53	J/mol×K	826.31	Joback Method
cpg	534.82	J/mol×K	870.70	Joback Method
cpg	547.22	J/mol×K	915.10	Joback Method
cpg	558.90	J/mol×K	959.49	Joback Method
cpg	570.03	J/mol×K	1003.88	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R15539&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R15539&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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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