

# Benzo[j]benzo[2,1-a!3,4-a']dianthracene

<b>Other names:</b>	Benzo[j]benzo[2,1-a:3,4-a']dianthracene
<b>Inchi:</b>	InChI=1S/C34H20/c1-2-7-25-19-31-27(17-24(25)6-1)15-12-22-10-11-23-13-16-28-18-26
<b>InchiKey:</b>	UFOJYKFBAGIOGQ-UHFFFAOYSA-N
<b>Formula:</b>	C34H20
<b>SMILES:</b>	c1ccc2cc3c(ccc4ccc5ccc6cc7ccc8ccccc8c7cc6c5c43)cc2c1
<b>Mol. weight [g/mol]:</b>	428.52
<b>CAS:</b>	122961-15-3

## Physical Properties

Property code	Value	Unit	Source
gf	1036.58	kJ/mol	Joback Method
hf	760.11	kJ/mol	Joback Method
hfus	54.66	kJ/mol	Joback Method
hvap	109.01	kJ/mol	Joback Method
log10ws	-14.10		Crippen Method
logp	9.759		Crippen Method
mcvol	329.940	ml/mol	McGowan Method
pc	1567.23	kPa	Joback Method
tb	1166.74	K	Joback Method
tc	1453.32	K	Joback Method
tf	803.38	K	Joback Method
vc	1.286	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1084.53	J/molxK	1166.74	Joback Method
cpg	1112.70	J/molxK	1214.50	Joback Method
cpg	1143.78	J/molxK	1262.27	Joback Method
cpg	1178.32	J/molxK	1310.03	Joback Method
cpg	1216.88	J/molxK	1357.79	Joback Method
cpg	1259.98	J/molxK	1405.55	Joback Method
cpg	1308.19	J/molxK	1453.32	Joback Method
dvisc	0.0069004	Paxs	803.38	Joback Method

dvisc	0.0062390	Paxs	863.94	Joback Method
dvisc	0.0057159	Paxs	924.50	Joback Method
dvisc	0.0052934	Paxs	985.06	Joback Method
dvisc	0.0049459	Paxs	1045.62	Joback Method
dvisc	0.0046557	Paxs	1106.18	Joback Method
dvisc	0.0044102	Paxs	1166.74	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=C122961153&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C122961153&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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