

# 12H-Dibenzo[b,h]fluorene

<b>Inchi:</b>	InChI=1S/C21H14/c1-3-7-16-12-20-18(9-14(16)5-1)11-19-10-15-6-2-4-8-17(15)13-21(19)
<b>InchiKey:</b>	MTAHTQMQAFEQTQ-UHFFFAOYSA-N
<b>Formula:</b>	C21H14
<b>SMILES:</b>	<chem>c1ccc2cc3c(cc2c1)Cc1cc2ccccc2cc1-3</chem>
<b>Mol. weight [g/mol]:</b>	266.34
<b>CAS:</b>	242-47-7

## Physical Properties

Property code	Value	Unit	Source
gf	618.20	kJ/mol	Joback Method
hf	438.01	kJ/mol	Joback Method
hfus	31.97	kJ/mol	Joback Method
hvap	72.70	kJ/mol	Joback Method
log10ws	-8.03		Crippen Method
logp	5.564		Crippen Method
mvol	209.450	ml/mol	McGowan Method
pc	2429.05	kPa	Joback Method
tb	793.99	K	Joback Method
tc	1059.55	K	Joback Method
tf	523.97	K	Joback Method
vc	0.814	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.34	J/molxK	793.99	Joback Method
cpg	646.11	J/molxK	1015.29	Joback Method
cpg	632.78	J/molxK	971.03	Joback Method
cpg	619.52	J/molxK	926.77	Joback Method
cpg	606.05	J/molxK	882.51	Joback Method
cpg	592.08	J/molxK	838.25	Joback Method
cpg	659.79	J/molxK	1059.55	Joback Method
dvisc	0.0015639	Paxs	793.99	Joback Method
dvisc	0.0016690	Paxs	748.99	Joback Method

dvisc	0.0017960	Paxs	703.98	Joback Method
dvisc	0.0019522	Paxs	658.98	Joback Method
dvisc	0.0021481	Paxs	613.98	Joback Method
dvisc	0.0023996	Paxs	568.97	Joback Method
dvisc	0.0027321	Paxs	523.97	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=C242477&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C242477&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>

## 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>mccvol:</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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