

# 1H-Dibenzo[a,i]fluorene, eicosahydro-

<b>Other names:</b>	Eicosahydrodibenzo(a,i)fluorene Perhydrodibenzo(a,i)fluorene
<b>Inchi:</b>	InChI=1S/C21H34/c1-3-7-16-14(5-1)9-11-18-19-12-10-15-6-2-4-8-17(15)21(19)13-20(16)
<b>InchiKey:</b>	AXAQHVIIZMRCDU-UHFFFAOYSA-N
<b>Formula:</b>	C21H34
<b>SMILES:</b>	C1CCC2C(C1)CCC1C2CC2C3CCCCC3CCC21
<b>Mol. weight [g/mol]:</b>	286.49
<b>CAS:</b>	55256-24-1

## Physical Properties

Property code	Value	Unit	Source
gf	333.96	kJ/mol	Joback Method
hf	-210.75	kJ/mol	Joback Method
hfus	31.43	kJ/mol	Joback Method
hvap	62.01	kJ/mol	Joback Method
log10ws	-6.15		Crippen Method
logp	6.055		Crippen Method
mcvol	252.450	ml/mol	McGowan Method
pc	1558.58	kPa	Joback Method
tb	725.19	K	Joback Method
tc	964.56	K	Joback Method
tf	382.29	K	Joback Method
vc	0.946	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	863.15	J/molxK	725.19	Joback Method
cpg	993.68	J/molxK	924.67	Joback Method
cpg	971.27	J/molxK	884.77	Joback Method
cpg	947.20	J/molxK	844.88	Joback Method
cpg	921.27	J/molxK	804.98	Joback Method
cpg	893.32	J/molxK	765.09	Joback Method
cpg	1014.60	J/molxK	964.56	Joback Method

dvisc	0.0038052	Paxs	725.19	Joback Method
dvisc	0.0039172	Paxs	668.04	Joback Method
dvisc	0.0040543	Paxs	610.89	Joback Method
dvisc	0.0042262	Paxs	553.74	Joback Method
dvisc	0.0044477	Paxs	496.59	Joback Method
dvisc	0.0047433	Paxs	439.44	Joback Method
dvisc	0.0051569	Paxs	382.29	Joback Method

## Sources

<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>
<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=C55256241&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55256241&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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