

# Benzo[j]fluoranthene

<b>Other names:</b>	205-82-3 7,8-Benzofluoranthene B(j)F Benz(j)fluoranthene Benzo(j)fluoranthene Benzo[l]fluoranthene Dibenzo[a,jk]fluorene
<b>Inchi:</b>	InChI=1S/C20H12/c1-2-8-15-13(5-1)11-12-17-16-9-3-6-14-7-4-10-18(19(14)16)20(15)17
<b>InchiKey:</b>	KHNYNFUTFKJLDD-UHFFFAOYSA-N
<b>Formula:</b>	C20H12
<b>SMILES:</b>	<chem>c1ccc2c3c(ccc2c1)-c1cccc2cccc-3c12</chem>
<b>Mol. weight [g/mol]:</b>	252.31
<b>CAS:</b>	205-82-3

## Physical Properties

Property code	Value	Unit	Source
gf	621.88	kJ/mol	Joback Method
hf	464.81	kJ/mol	Joback Method
hfus	31.48	kJ/mol	Joback Method
hvap	70.30	kJ/mol	Joback Method
log10ws	-8.00		Aqueous Solubility Prediction Method
log10ws	-8.00		Estimated Solubility Method
logp	5.640		Crippen Method
mvol	195.360	ml/mol	McGowan Method
pc	2608.40	kPa	Joback Method
rinpol	443.64		NIST Webbook
rinpol	2725.00		NIST Webbook
rinpol	2704.00		NIST Webbook
rinpol	440.92		NIST Webbook
rinpol	443.19		NIST Webbook
rinpol	444.06		NIST Webbook
rinpol	442.45		NIST Webbook
rinpol	432.90		NIST Webbook
rinpol	432.90		NIST Webbook
rinpol	2711.00		NIST Webbook

rmpol	2756.00		NIST Webbook
rmpol	443.13		NIST Webbook
rmpol	440.92		NIST Webbook
rmpol	430.60		NIST Webbook
rmpol	440.90		NIST Webbook
rmpol	442.35		NIST Webbook
rmpol	440.92		NIST Webbook
rmpol	440.92		NIST Webbook
rmpol	440.92		NIST Webbook
rmpol	430.60		NIST Webbook
rmpol	440.92		NIST Webbook
rmpol	2756.00		NIST Webbook
rmpol	2704.00		NIST Webbook
rmpol	441.95		NIST Webbook
tb	766.84	K	Joback Method
tc	1030.60	K	Joback Method
tf	516.22	K	Joback Method
vc	0.765	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	521.16	J/molxK	766.84	Joback Method
cpg	534.69	J/molxK	810.80	Joback Method
cpg	547.49	J/molxK	854.76	Joback Method
cpg	559.83	J/molxK	898.72	Joback Method
cpg	572.01	J/molxK	942.68	Joback Method
cpg	584.31	J/molxK	986.64	Joback Method
cpg	597.00	J/molxK	1030.60	Joback Method
dvisc	0.0032474	Paxs	516.22	Joback Method
dvisc	0.0029976	Paxs	557.99	Joback Method
dvisc	0.0027980	Paxs	599.76	Joback Method
dvisc	0.0026352	Paxs	641.53	Joback Method
dvisc	0.0025002	Paxs	683.30	Joback Method
dvisc	0.0023865	Paxs	725.07	Joback Method
dvisc	0.0022895	Paxs	766.84	Joback Method
hfust	17.90	kJ/mol	438.30	NIST Webbook

# Sources

<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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=C205823&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C205823&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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>rinpol:</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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