

Benzo(b)fluorene

Other names:	11H-Benzo[b]fluorene 2,3-Benzofluorene
Inchi:	InChI=1S/C17H12/c1-2-6-13-11-17-15(9-12(13)5-1)10-14-7-3-4-8-16(14)17/h1-9,11H,10H
InchiKey:	HAPOJKSPCGLOOD-UHFFFAOYSA-N
Formula:	C17H12
SMILES:	c1ccc2c(c1)Cc1cc3ccccc3cc1-2
Mol. weight [g/mol]:	216.28
CAS:	30777-19-6

Physical Properties

Property code	Value	Unit	Source
gf	487.50	kJ/mol	Joback Method
hf	340.97	kJ/mol	Joback Method
hfus	24.98	kJ/mol	Joback Method
hvap	61.49	kJ/mol	Joback Method
log10ws	-8.04		Estimated Solubility Method
logp	4.411		Crippen Method
mcvol	172.550	ml/mol	McGowan Method
pc	2844.44	kPa	Joback Method
rinpol	2178.00		NIST Webbook
rinpol	2157.00		NIST Webbook
rinpol	2199.00		NIST Webbook
rinpol	2161.00		NIST Webbook
rinpol	2175.00		NIST Webbook
rinpol	2176.00		NIST Webbook
rinpol	2176.00		NIST Webbook
rinpol	2176.00		NIST Webbook
rinpol	2176.00		NIST Webbook
rinpol	2190.00		NIST Webbook
rinpol	2190.00		NIST Webbook
rinpol	2190.00		NIST Webbook
rinpol	2190.00		NIST Webbook
rinpol	2200.00		NIST Webbook
rinpol	2200.00		NIST Webbook
rinpol	2200.00		NIST Webbook
rinpol	2206.00		NIST Webbook

rinpol	2207.00	NIST Webbook
rinpol	2212.00	NIST Webbook
rinpol	2195.00	NIST Webbook
rinpol	2157.00	NIST Webbook
rinpol	2183.00	NIST Webbook
rinpol	2199.00	NIST Webbook
rinpol	2172.00	NIST Webbook
rinpol	367.02	NIST Webbook
rinpol	366.61	NIST Webbook
rinpol	366.71	NIST Webbook
rinpol	366.62	NIST Webbook
rinpol	366.83	NIST Webbook
rinpol	369.39	NIST Webbook
rinpol	368.90	NIST Webbook
rinpol	369.16	NIST Webbook
rinpol	369.08	NIST Webbook
rinpol	368.93	NIST Webbook
rinpol	369.08	NIST Webbook
rinpol	368.98	NIST Webbook
rinpol	369.28	NIST Webbook
rinpol	368.40	NIST Webbook
rinpol	369.00	NIST Webbook
rinpol	368.74	NIST Webbook
rinpol	368.97	NIST Webbook
rinpol	369.05	NIST Webbook
rinpol	369.70	NIST Webbook
rinpol	365.78	NIST Webbook
rinpol	369.40	NIST Webbook
rinpol	369.39	NIST Webbook
rinpol	369.40	NIST Webbook
rinpol	368.90	NIST Webbook
rinpol	369.33	NIST Webbook
rinpol	369.40	NIST Webbook
rinpol	367.20	NIST Webbook
rinpol	369.40	NIST Webbook
rinpol	369.61	NIST Webbook
rinpol	370.10	NIST Webbook
rinpol	369.39	NIST Webbook
rinpol	366.11	NIST Webbook
rinpol	366.26	NIST Webbook
rinpol	367.32	NIST Webbook
rinpol	369.39	NIST Webbook
rinpol	2172.00	NIST Webbook
rinpol	2178.00	NIST Webbook

rinpol	2176.00		NIST Webbook
rinpol	2190.00		NIST Webbook
rinpol	2207.00		NIST Webbook
rinpol	369.39		NIST Webbook
rinpol	368.66		NIST Webbook
rinpol	368.74		NIST Webbook
rinpol	369.39		NIST Webbook
tb	678.51	K	Joback Method
tc	937.21	K	Joback Method
tf	433.67	K	Joback Method
vc	0.667	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.86	J/mol×K	678.51	Joback Method
cpg	502.61	J/mol×K	894.10	Joback Method
cpg	491.43	J/mol×K	850.98	Joback Method
cpg	479.68	J/mol×K	807.86	Joback Method
cpg	467.14	J/mol×K	764.74	Joback Method
cpg	453.60	J/mol×K	721.63	Joback Method
cpg	513.42	J/mol×K	937.21	Joback Method
dvisc	0.0009629	Pa×s	678.51	Joback Method
dvisc	0.0010415	Pa×s	637.70	Joback Method
dvisc	0.0011386	Pa×s	596.90	Joback Method
dvisc	0.0012612	Pa×s	556.09	Joback Method
dvisc	0.0014198	Pa×s	515.28	Joback Method
dvisc	0.0016313	Pa×s	474.48	Joback Method
dvisc	0.0019238	Pa×s	433.67	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C30777196&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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