9,9'-Bi-9H-fluorene

Other names:	9,9'-Bifluorene
	Bifluorenyl
	9,9'-Bifluorenyl
	Bisfluorenyl
Inchi:	InChI=1S/C26H18/c1-5-13-21-17(9-1)18-10-2-6-14-22(18)25(21)26-23-15-7-3-11-19(23)2
InchiKey:	QXAIDADUIMVTPS-UHFFFAOYSA-N
Formula:	C26H18
SMILES:	c1ccc2c(c1)-c1ccccc1C2C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	330.42
CAS:	1530-12-7

Physical Properties

Property code	Value	Unit	Source
chs	-13001.79 ± 0.76	kJ/mol	NIST Webbook
gf	749.06	kJ/mol	Joback Method
hf	330.10 ± 4.20	kJ/mol	NIST Webbook
hf	330.10 ± 2.30	kJ/mol	NIST Webbook
hfs	197.50 ± 3.50	kJ/mol	NIST Webbook
hfs	197.50 ± 1.90	kJ/mol	NIST Webbook
hfus	42.37	kJ/mol	Joback Method
hsub	132.60 ± 1.10	kJ/mol	NIST Webbook
hsub	132.60	kJ/mol	NIST Webbook
hsub	132.61	kJ/mol	NIST Webbook
hsub	132.60 ± 2.30	kJ/mol	NIST Webbook
hvap	84.36	kJ/mol	Joback Method
log10ws	-8.95		Crippen Method
logp	6.611		Crippen Method
mcvol	260.440	ml/mol	McGowan Method
pc	1906.90	kPa	Joback Method
tb	917.32	K	Joback Method
tc	1188.78	K	Joback Method
tf	518.35 ± 1.00	K	NIST Webbook
vc	1.006	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	900.26	J/mol×K	1188.78	Joback Method
cpg	795.71	J/mol×K	917.32	Joback Method
cpg	812.87	J/mol×K	962.56	Joback Method
cpg	829.68	J/mol×K	1007.81	Joback Method
cpg	846.48	J/mol×K	1053.05	Joback Method
cpg	863.61	J/mol×K	1098.29	Joback Method
cpg	881.43	J/mol×K	1143.53	Joback Method
dvisc	0.0025767	Pa×s	917.32	Joback Method
dvisc	0.0042000	Pa×s	588.50	Joback Method
dvisc	0.0037395	Pa×s	643.30	Joback Method
dvisc	0.0033909	Pa×s	698.11	Joback Method
dvisc	0.0031188	Pa×s	752.91	Joback Method
dvisc	0.0029013	Pa×s	807.71	Joback Method
dvisc	0.0027239	Pa×s	862.52	Joback Method
hfust	36.90	kJ/mol	519.20	NIST Webbook
hfust	36.90	kJ/mol	519.20	NIST Webbook
hsubt	131.80 ± 1.10	kJ/mol	395.50	NIST Webbook
hvapt	95.70	kJ/mol	395.50	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1530127&Units=SI

Legend

chs: Standard solid enthalpy of combustion
cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation

hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume