3,6-Dihydroxy-9,9-dimethylfluorene

Inchi: InChI=1S/C15H14O2/c1-15(2)13-5-3-9(16)7-11(13)12-8-10(17)4-6-14(12)15/h3-8,16-17H
InchiKey: UZENQYQAUQBGEW-UHFFFAOYSA-N
Formula: C15H14O2
SMILES: CC1(C)c2ccc(O)cc2-c2cc(O)ccc21
Mol. weight [g/mol]: 226.27

Physical Properties

Property code	Value	Unit	Source
gf	51.20	kJ/mol	Joback Method
hf	-157.07	kJ/mol	Joback Method
hfus	29.51	kJ/mol	Joback Method
hvap	79.31	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.404		Crippen Method
mcvol	175.570	ml/mol	McGowan Method
pc	3891.64	kPa	Joback Method
rinpol	2239.00		NIST Webbook
rinpol	2239.00		NIST Webbook
tb	765.60	K	Joback Method
tc	1027.01	K	Joback Method
tf	609.01	K	Joback Method
vc	0.562	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	496.34	J/mol×K	765.60	Joback Method
cpg	509.79	J/mol×K	809.17	Joback Method
cpg	523.56	J/mol×K	852.74	Joback Method
cpg	538.11	J/mol×K	896.31	Joback Method
cpg	553.86	J/mol×K	939.87	Joback Method
cpg	571.27	J/mol×K	983.44	Joback Method
cpg	590.77	J/mol×K	1027.01	Joback Method

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=R569090&Units=SI

Legend

cpg:	Ideal gas heat capacity
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