2,4A-Dihydro-fluorene

Inchi: InChI=1S/C13H12/c1-3-7-12-10(5-1)9-11-6-2-4-8-13(11)12/h1-3,5-8,11H,4,9H2
InchiKey: WRUSSAHPTVRSHH-UHFFFAOYSA-N
Formula: C13H12
SMILES: C1=CC2Cc3ccccc3C2=CC1
Mol. weight [g/mol]: 168.23

Physical Properties

Property code	Value	Unit	Source
gf	328.76	kJ/mol	Joback Method
hf	177.28	kJ/mol	Joback Method
hfus	18.23	kJ/mol	Joback Method
hvap	49.02	kJ/mol	Joback Method
log10ws	-3.75		Crippen Method
logp	3.202		Crippen Method
mcvol	139.950	ml/mol	McGowan Method
pc	3173.97	kPa	Joback Method
rinpol	258.60		NIST Webbook
rinpol	258.60		NIST Webbook
tb	554.22	K	Joback Method
tc	798.24	K	Joback Method
tf	325.85	K	Joback Method
vc	0.534	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	327.93	J/mol×K	554.22	Joback Method
cpg	344.80	J/mol×K	594.89	Joback Method
cpg	360.27	J/mol×K	635.56	Joback Method
cpg	374.45	J/mol×K	676.23	Joback Method
cpg	387.50	J/mol×K	716.90	Joback Method
cpg	399.53	J/mol×K	757.57	Joback Method
cpg	410.67	J/mol×K	798.24	Joback Method
dvisc	0.0015943	Pa×s	325.85	Joback Method

dvisc	0.0012721	Pa×s	363.91	Joback Method
dvisc	0.0010594	Pa×s	401.97	Joback Method
dvisc	0.0009106	Pa×s	440.04	Joback Method
dvisc	0.0008018	Pa×s	478.10	Joback Method
dvisc	0.0007194	Pa×s	516.16	Joback Method
dvisc	0.0006551	Pa×s	554.22	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R508659&Units=SI
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

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