2,9b-Dihydrofurano[4,3,2-jk]fluorene

Other names: Dihydrofurano[4,3,2-jk]fluorene
Inchi: InChI=1S/C14H10O/c1-2-6-12-10(5-1)11-7-3-4-9-8-15-14(12)13(9)11/h1-7,14H,8H2
InchiKey: HQEUANYBCCGWMQ-UHFFFAOYSA-N
Formula: C14H10O
SMILES: c1ccc2c(c1)-c1cccc3c1C2OC3
Mol. weight [g/mol]: 194.23
CAS: 204396-15-6

Physical Properties

Property code	Value	Unit	Source
gf	342.32	kJ/mol	Joback Method
hf	158.78	kJ/mol	Joback Method
hfus	28.41	kJ/mol	Joback Method
hvap	57.42	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	3.287		Crippen Method
mcvol	144.750	ml/mol	McGowan Method
pc	3318.18	kPa	Joback Method
rinpol	274.10		NIST Webbook
rinpol	274.10		NIST Webbook
tb	620.31	K	Joback Method
tc	869.54	K	Joback Method
tf	415.19	K	Joback Method
vc	0.564	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	365.32	J/mol×K	620.31	Joback Method
cpg	423.59	J/mol×K	828.00	Joback Method
cpg	413.58	J/mol×K	786.46	Joback Method
cpg	402.93	J/mol×K	744.92	Joback Method
cpg	391.47	J/mol×K	703.39	Joback Method
cpg	378.99	J/mol×K	661.85	Joback Method

cpg	433.15	J/mol×K	869.54	Joback Method
dvisc	0.0019664	Pa×s	620.31	Joback Method
dvisc	0.0020311	Pa×s	586.12	Joback Method
dvisc	0.0021064	Pa×s	551.94	Joback Method
dvisc	0.0021951	Pa×s	517.75	Joback Method
dvisc	0.0023008	Pa×s	483.56	Joback Method
dvisc	0.0024289	Pa×s	449.38	Joback Method
dvisc	0.0025872	Pa×s	415.19	Joback Method

Sources

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=C204396156&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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