Formamide, n-(7-nitrofluoren-2-yl)-

Inchi: InChI=1S/C14H10N2O3/c17-8-15-11-1-3-13-9(6-11)5-10-7-12(16(18)19)2-4-14(10)13/h1
InchiKey: NNVUDKLVHMGGOQ-UHFFFAOYSA-N
Formula: C14H10N2O3
SMILES: O=CNc1ccc2c(c1)Cc1cc([N+](=O)[O-])ccc1-2
Mol. weight [g/mol]: 254.24
CAS: 6583-71-7

Physical Properties

Property code	Value	Unit	Source
gf	371.38	kJ/mol	Joback Method
hf	157.48	kJ/mol	Joback Method
hfus	38.55	kJ/mol	Joback Method
hvap	83.58	kJ/mol	Joback Method
log10ws	-4.86		Crippen Method
logp	2.734		Crippen Method
mcvol	178.710	ml/mol	McGowan Method
pc	3272.78	kPa	Joback Method
tb	846.54	K	Joback Method
tc	1105.79	K	Joback Method
tf	617.95	K	Joback Method
vc	0.712	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.05	J/mol×K	846.54	Joback Method
cpg	511.50	J/mol×K	889.75	Joback Method
cpg	521.35	J/mol×K	932.96	Joback Method
cpg	530.75	J/mol×K	976.17	Joback Method
cpg	539.87	J/mol×K	1019.38	Joback Method
cpg	548.86	J/mol×K	1062.59	Joback Method
cpg	557.88	J/mol×K	1105.79	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=C6583717&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume