4-Acetamido-9-fluorenone

Inchi: InChI=1S/C15H11NO2/c1-9(17)16-13-8-4-7-12-14(13)10-5-2-3-6-11(10)15(12)18/h2-8H,
InchiKey: BDYZWJVQPFNPBV-UHFFFAOYSA-N
Formula: C15H11NO2
SMILES: CC(=O)Nc1cccc2c1-c1ccccc1C2=O
Mol. weight [g/mol]: 237.25
CAS: 42135-35-3

Physical Properties

Property code	Value	Unit	Source
gf	201.89	kJ/mol	Joback Method
hf	-5.63	kJ/mol	Joback Method
hfus	28.99	kJ/mol	Joback Method
hvap	72.83	kJ/mol	Joback Method
log10ws	-4.48		Crippen Method
logp	2.856		Crippen Method
mcvol	176.950	ml/mol	McGowan Method
pc	3028.94	kPa	Joback Method
tb	785.63	K	Joback Method
tc	1037.18	K	Joback Method
tf	549.24	K	Joback Method
vc	0.681	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	487.19	J/mol×K	785.63	Joback Method
cpg	499.52	J/mol×K	827.56	Joback Method
cpg	510.93	J/mol×K	869.48	Joback Method
cpg	521.51	J/mol×K	911.41	Joback Method
cpg	531.36	J/mol×K	953.33	Joback Method
cpg	540.57	J/mol×K	995.26	Joback Method
cpg	549.25	J/mol×K	1037.18	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C42135353&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
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