4-Amino-9-fluorenone

Other names:	9H-Fluoren-9-one, 4-amino- Fluoren-9-one, 4-amino- 4-Aminofluorenone 4-amino-9H-fluoren-9-one
Inchi:	InChI=1S/C13H9NO/c14-11-7-3-6-10-12(11)8-4-1-2-5-9(8)13(10)15/h1-7H,14H2
InchiKey:	FFWCEONGEXZNFU-UHFFFAOYSA-N
Formula:	C13H9NO
SMILES:	Nc1cccc2c1-c1ccccc1C2=O
Mol. weight [g/mol]:	195.22
CAS:	4269-15-2

Physical Properties

Property code	Value	Unit	Source
gf	291.03	kJ/mol	Joback Method
hf	128.55	kJ/mol	Joback Method
hfus	22.31	kJ/mol	Joback Method
hvap	65.84	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	2.480		Crippen Method
mcvol	147.200	ml/mol	McGowan Method
pc	3699.95	kPa	Joback Method
tb	708.36	K	Joback Method
tc	975.35	K	Joback Method
tf	507.37	K	Joback Method
vc	0.557	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.73	J/mol×K	708.36	Joback Method
cpg	394.19	J/mol×K	752.86	Joback Method
cpg	405.67	J/mol×K	797.36	Joback Method
cpg	416.27	J/mol×K	841.85	Joback Method
cpg	426.10	J/mol×K	886.35	Joback Method

cpg	435.27	J/mol×K	930.85	Joback Method
cpg	443.89	J/mol×K	975.35	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4269152&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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