N-2-Fluorenylacetamide

Other names:	2-(Acetylamino)fluorene
	2-AAF
	2-Acetamidofluorene
	2-Acetaminofluorene
	2-Acetylamino-fluoren
	2-Acetylaminofluorine
	2-FAA
	2-Fluorenylacetamide
	AAF
	Acetamide, N-9H-fluoren-2-yl-
	Acetamide, N-fluoren-2-yl-
	Acetoaminofluorene
	Azetylaminofluoren
	FAA
	N-(9H-Fluoren-2-yl)acetamide
	N-Acetyl-2-aminofluorene
	N-Fluoren-2-ylacetamide
	NSC 12279
	Rcra waste number U005
Inchi:	InChI=1S/C15H13NO/c1-10(17)16-13-6-7-15-12(9-13)8-11-4-2-3-5-14(11)15/h2-7,9H,8H
InchiKey:	CZIHNRWJTSTCEX-UHFFFAOYSA-N
Formula:	C15H13NO
SMILES:	CC(=O)Nc1ccc2c(c1)Cc1ccccc1-2
Mol. weight [g/mol]:	223.27
CAS:	53-96-3

Physical Properties

Property code	Value	Unit	Source
gf	324.48	kJ/mol	Joback Method
hf	132.07	kJ/mol	Joback Method
hfus	29.48	kJ/mol	Joback Method
hvap	68.58	kJ/mol	Joback Method
log10ws	-4.24		Aqueous Solubility Prediction Method
logp	3.216		Crippen Method
mcvol	175.380	ml/mol	McGowan Method
pc	2915.53	kPa	Joback Method

rinpol	391.13		NIST Webbook
rinpol	391.13		NIST Webbook
rinpol	390.32		NIST Webbook
tb	717.81	K	Joback Method
tc	959.43	K	Joback Method
tf	466.65	K	Aqueous Solubility Prediction Method
vc	0.674	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	465.48	J/mol×K	717.81	Joback Method
cpg	478.70	J/mol×K	758.08	Joback Method
cpg	490.95	J/mol×K	798.35	Joback Method
cpg	502.38	J/mol×K	838.62	Joback Method
cpg	513.10	J/mol×K	878.89	Joback Method
cpg	523.26	J/mol×K	919.16	Joback Method
cpg	532.97	J/mol×K	959.43	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C53963&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume