Acetamide, N-9H-fluoren-4-yl-

Other names:	Acetamide, N-fluoren-4-yl-
	N-4-Fluorenylacetamide
	4-Acetylaminofluorene
	4-Acetamidofluorene
	4-Acetylaminofluoren
	N-Fluoren-4-ylacetamide
	N-(9H-Fluoren-4-yl)acetamide
	4-Fluorenylacetamide
	NSC 9866
Inchi:	InChI=1S/C15H13NO/c1-10(17)16-14-8-4-6-12-9-11-5-2-3-7-13(11)15(12)14/h2-8H,9H2,
InchiKey:	PHPWISAFHNEMSR-UHFFFAOYSA-N
Formula:	C15H13NO
SMILES:	CC(=O)Nc1cccc2c1-c1ccccc1C2
Mol. weight [g/mol]:	223.27
CAS:	28322-02-3

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	-4.62		Crippen Method
logp	3.216		Crippen Method
mcvol	175.380	ml/mol	McGowan Method
pc	2915.53	kPa	Joback Method
tb	717.81	K	Joback Method
tc	959.43	K	Joback Method
tf	481.02	K	Joback 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

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=C28322023&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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