

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

<b>Other names:</b>	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
<b>Inchi:</b>	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,
<b>InchiKey:</b>	PHPWISAFHNEMSR-UHFFFAOYSA-N
<b>Formula:</b>	C15H13NO
<b>SMILES:</b>	CC(=O)Nc1cccc2c1-c1cccc1C2
<b>Mol. weight [g/mol]:</b>	223.27
<b>CAS:</b>	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
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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

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C28322023&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C28322023&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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