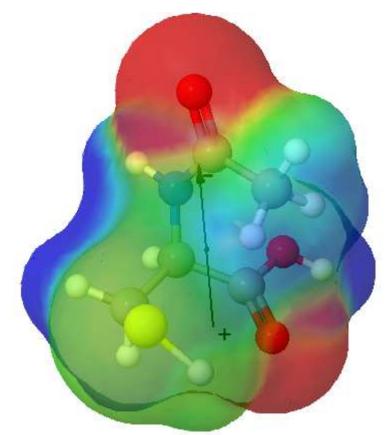
## Answer on Question#72215 – Chemistry – Inorganic chemistry

Question: What's the polarity of acetylcysteine?

## **Answer:**

Acetylcysteine is a derivative of non-polar amino acid cysteine. It has non-polar side chain -  $CH_2SH$  as well. However, acetylcysteine is the polar molecule because has polar functional groups (N-acyl group and carboxylic acid group). The distribution of electron density is showed via couple of resonance form of acetylcysteine:

Dipole as measure of polarity is calculated via Molecular calculator (http://molcalc.org) and it equals 4.83 Debye.



Blue: Positive, Red: Negative

Answer provided by AssignmentExpert.com