











Compound Solubility in g/100 mL H₂O







• Proton transfer from the acidic carboxy group to the basic amino group forms a salt called a *zwitterion*, which contains both a positive and a negative charge.



- At low pH alanine has a net (+) charge (form B).
- As the pH is increased to ~7, the carboxy group is deprotonated, and the amino acid exists as a zwitterion with no overall charge (form A).
- At high pH, the ammonium cation is deprotonated, and the amino acid has a net (-) charge (form C).





