

## COLORED SHEET CHARACTERISTICS

<b>Simplest Amino Acid</b>	<b>Unique Components of Amino Acids</b>	<b>Carboxyl Group</b>	<b>Amino Group (NH<sub>2</sub>) on the C atom adjacent to Carboxyl group</b>
<b>NH<sub>2</sub> designated Alpha-Amino Group</b>	<b>Cyclic Ring</b>		<b>In Most species adults do not require this</b>
<b>Branched-Chain Amino Acid</b>	<b>Low in Corn</b>	<b>Deficiency = Eye Cataracts</b>	<b>Branched-Chain Amino Acid</b>
<b>Sulfur containing</b>	<b>Important in Ruminant</b>	<b>In some cases First Limiting - Swine Growth</b>	<b>Can be replaced partially by Cystine, Important in Poultry</b>
<b>Branched-Chain Amino Acid; Help regulate glucose uptake by cells</b>	<b>Low in Corn</b>	<b>First limiting in Swine and humans</b>	<b>Reduced growth rate and lean tissue deposition in swine</b>