



FERTILISER



CARBology® Range

organic amino gluconate chelated foliar fertilizer



The **CARBology®** range consists of amino gluconate chelated products that are either in a water soluble or liquid form consisting of multi-element or single element formulations.

What is chelation?

Chelation is a process where a divalent cation (e.g. Fe, Cu, Zn) is encased and protected by a chelator (synthetic or organic) which thus neutralises the charge of the cation which improves absorbability and mixability.

CARBology® Range chelate:

- The **CARBology® range** consists of a covalent-bound complex between an organic amino acid and carbohydrate. These Molecules are known as a glycoprotein.
- The amino acid which is used in the **CARBology® range** is known as a glycine. Glycine is one of the smallest and simplest natural amino acids (The Biology project, 2003) known to science at this stage. It plays a huge role in membrane transfer and translocation of elements. With Chelation, the Carbon, Nitrogen, Oxygen and Hydrogen fraction of the **CARBology® range** is up to six times higher, compared to normal amino acids or monosaccharides.

Features and benefits of the CARBology® Range:

| Features: | Benefits: |
|---|--|
| Natural Chelate | Increases the accessibility of elements to plants. |
| Amino acid in carbohydrate matrix | Optimal cell wall recognition and uptake of elements. |
| Glycine amino acid | Smallest amino acid molecule known for improved uptake of nutrients. |
| Neutral charge | Promotes uptake through plants as well as mixability with other agricultural products. |
| Safe formulation | Free from any heavy metals. |
| Individual and multi-element formulations | Individual element products as well as multi-element products available for most agricultural crops. |
| Non corrosive product | No danger to expensive application implements. |
| Environmentally friendly | Low application rates. Natural chelates can be metabolised by plants or soil microbes. |
| Price competitive | Chelation leads to effective uptake of elements compared to nonchelated fertiliser products. Low application amounts which conform to global norms |



*See label for further details and instructions.