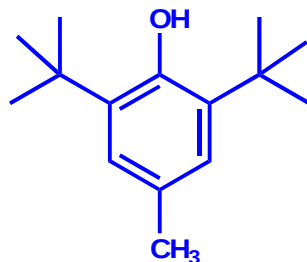
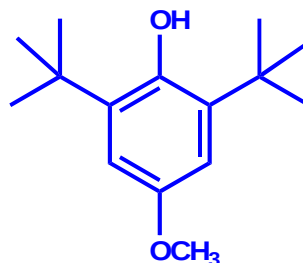


Anti-oxidants and rancidity

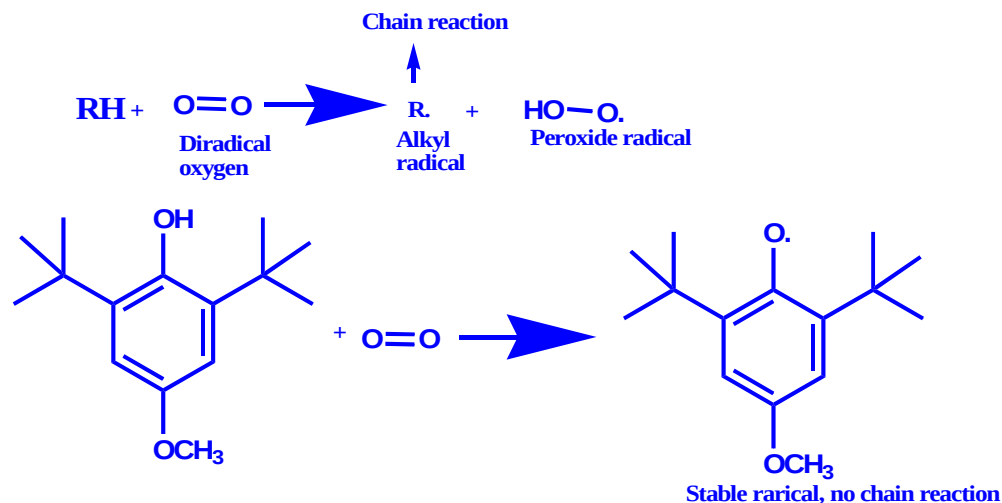
- Anti-oxidants scavenge oxygen before it reacts with fatty acid radicals.



BHT

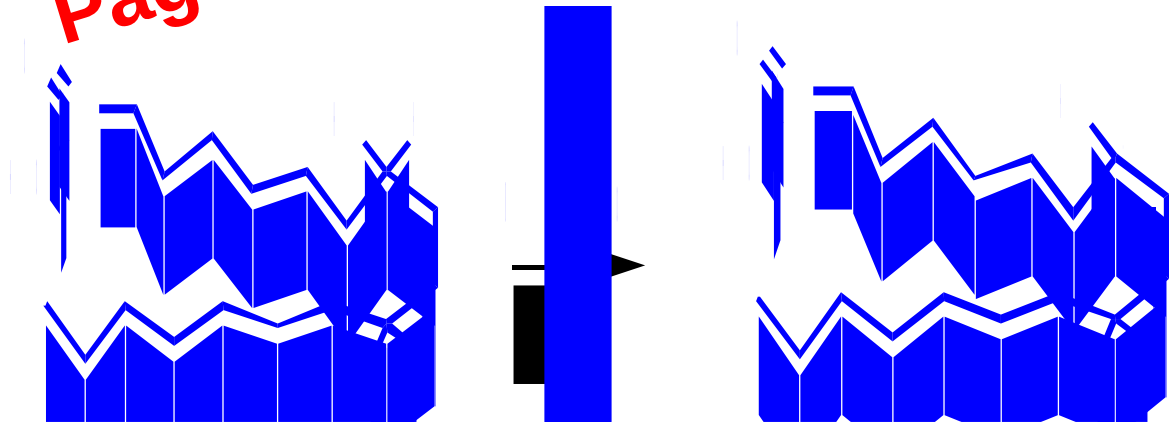


BHA



Oxidation of fatty acids

Preview from Notesale.com
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Amino acids

- They are the basic building blocks of proteins. They occur in plants in free state.
- The natural α -amino acids have L-configuration as shown by the Fischer projection.
- They condense with each other by peptide bond releasing water to form oligopeptides (with < 10 amino acids) and proteins (> 50 amino acids).
- Collagen is the commonest body protein occurring in ligaments and muscle tissues. 50% of amino acids in collagen are proline and glycine.

Manufacture of amino acids

- Japan is the main manufacturer of amino acids some of them in quite large amounts

Glycine 22k tons per year by synthesis.

L-aspartic acid 7k tons per year , enzymatic hydrolysis.

Monosodium L-glutamate 1m tons ,fermentation .

L-Lysine HCl salt 250k tons, fermentation.

DL-Methionine 350k tons , synthesis.

L-Phenylalalanine 8k tons, fermentation.

L-Tryptophan 4k tons , fermentation.