

## **Functional characteristics, nutritional value and industrial applications of *Madhuca longifolia* seeds: an overview**

### **Abstract**

New sustainable edible oil sources are desired to achieve supply chain flexibility and cost saving opportunities. Non-traditional fruit seeds are being considered because their constituents have unique chemical properties and may augment the supply of nutritional and functional products. *Madhuca longifolia* Syn. *M. indica* (Sapotaceae) is an important economic tree growing throughout the subtropical region of the Indo-Pak subcontinent. Information concerning the exact composition of mahua butter (known also as mowrah butter) from fruit-seeds of buttercup or *Madhuca* tree is scarce. Few studies investigated mahua butter for its composition, nutritional value, biological activities and antioxidative properties. In consideration of potential utilization, detailed knowledge on the chemical composition, nutritional value and industrial applications of mahua butter is of major importance. The diversity of applications to which mahua butter can be put gives this substance great industrial importance. This review summarizes recent knowledge on bioactive compounds, functional properties as well as food and non-food industrial applications of mahua butter.