

Novel Instant Coffee Aromatizing Compositions

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SUMMARY

Instant coffee products typically lack the intense aroma that characterizes roast coffee. Consequently, preparing an instant coffee beverage deprives the consumer of the full sensory experience that brewing roast coffee affords. A new controlled-release delivery technology has been developed that can significantly increase peak aroma intensity during instant coffee preparation. Key to this technology is the use of unconventional, buoyant, water-immiscible, volatile carrier liquids to create novel aromatizing compositions with improved functionality. A model aroma comprised of physically and chemically diverse volatile liquids was compounded into a variety of carrier liquids and encapsulated in instant coffee granules designed for addition to coffee products. Reconstituting granules containing aromatized unconventional carriers in hot water more effectively directed the aromatizing composition onto the beverage surface where rapid evaporation imparted intense preparation aroma without adversely affecting flavor or appearance. The effect of carrier physical properties on functionality and aroma release in a model system will be presented.