

# Alkenones as a Promising Green Alternative for Waxes in Cosmetics and Personal Care Products

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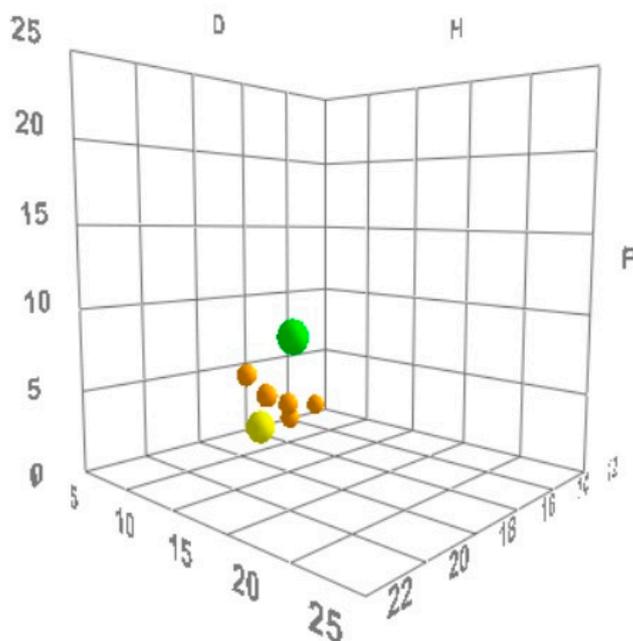
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**Figure S1.** Hansen Space for the alkenones (yellow), five solvents (orange), and skin (green).

**Table S1.** Stability results of lipsticks and lip balms.

Time point	Lipstick						Lip balm					
	1		2		3		1		2		3	
	25°C	45°C	25°C	45°C	25°C	45°C	25°C	45°C	25°C	45°C	25°C	45°C
Day 1	-	-	-	-	-	-	-	-	-	-	-	-
Week 1	-	-	-	-	-	-	-	+ soft	-	+ soft	-	+ soft
Week 2	-	-	-	-	-	-	-	+ soft	-	++ very soft	-	+ soft
Week 4	-	+ slight sweating	-	+ slight sweating	-	-	-	+ soft	++ very soft	++ very soft	+ (vertical cracks on stick's side)	+ soft
Week 6	-	+ slight sweating	-	+ slight sweating	-	-	-	+ soft	++ very soft	++ very soft	+ (vertical cracks on stick's side)	+ soft
Week 8	-	+ slight sweating	-	+ slight sweating	-	-	-	+ soft	++ very soft	++ very soft	+ (vertical cracks on stick's side)	+ soft
Week 10	-	++ severe sweating	-	++ severe sweating	-	-	-	+ soft	++ very soft	++ very soft	+ (vertical cracks on stick's top and side)	+ soft

Coding: -: no change, +: slightly noticeable change, ++: significant change.

**Table S2.** Stability of creams.

Time point	Cream 1		Cream 2		Cream 3		Cream 4	
	25 °C	45 °C						
Week 1	-	+	-	-	-	-	-	-
Week 2	-	+	-	+	-	++	-	++
Week 4	-	+	-	+	-	-	-	-
Week 6	-	+	-	+	-	-	-	-
Week 8	-	+	-	+	-	-	-	-
Week 10	-	+	-	+	-	-	-	-

Coding: -: no change, +: slightly noticeable change (i.e., reversible separation), ++: significant change (i.e., irreversible separation).