

## Volume Up Hair Conditioner

Volume Up Hair! Conditioner in spray with **Biovolume 128** for significant volumizing effect on hair. In tests the volume of the hair increased by 466%. **Sil-O-San 8651C** provides anti-static effect, good distribution and spreading. **Rofetan CCC** is ester with conditioner effect and helps to bring out shine. **KEM DIOL** represents a versatile preservative system without controversial ingredients.

No.	Trade name	INCI name	Dosage % wt.	Supplier
1	Water	AQUA	93.18	
2	TC-CARBOMER FD21	ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	0.1	Tinci
3	THEMAX N1	ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	0.15	Tinci
4	Polysorbate 80	POLYSORBATE 80	0.2	Various
5	Rofetan CCC	COCO-CAPRYLATE/CAPRATE	2	Ecogreen
6	Biovolume 128	GLYCERIN, AQUA, TILIA TOMENTOSA BUD EXTRACT, SODIUM BENZOATE, POTASSIUM SORBATE, CITRIC ACID	2	Bionorm
7	KEM DIOL	PHENOXYETHANOL CAPRYLYL GLYCOL	1	Akema
8	Triethanolamin	TRIETHANOLAMINE	0.15	Various
9	Vitamin B3	NIACINAMIDE	0.01	Various
10	Vitamin B6	PYRIDOXINE	0.01	Various
11	Sil-O-San 8631C	CETYL DIMETHICONE	1	Schill and Seilacher
12	parfum Bambucci 5023653-002	PARFUM	0.2	Düllberg

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### Procedure

- Fill water (1) and polymers (2 and 3) into duplicator. Stir well till the lumps disappear. Heat mixture up to 75°C. (Water phase)
- In an auxiliary container stir ingredients (4 + 5) and heat them up to 75°C. (Oily phase)
- The moment the both phases (water, oily) achieve 75°C, pump oily phase into water phase and homogenize well (approx. 10-15 minutes).
- Stop heating and start to cool down to 30-35°C.
- Mix ingredients (6,9,10) in a separate container.
- Add the mixture from separate container to the emulsion and stir well.
- Add ingredients (7,11,12) step by step to the emulsion and stir well.
- Measure pH. The permitted range is 5-6.
- In case of low pH set up the value by triethanolamine or sodium hydroxide.

### Stability

product was stable during 4 weeks with repeated cycles from 5°C to 40°C

### References: 180118

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