

The Personal Formulator

HAIR GEL WITH PVP AND VP.VA COPOLYMER

You may want to try this starting formulation for 16oz hair gel with PVP and VP.VA Copolymer:

PHASE A

Distilled Water 31.65% - 143oz

Carbomer 0.15% - 0.68oz

PHASE B

Distilled Water 55% - 249oz

PVP 4% - 18oz

VP/VA Copolymer 6% - 27oz

PHASE C

Triethanolamine 0.2% - 0.90oz

PHASE D

Polysorbate 20 1.5% - 6.8oz

Fragrance 0.5% - 2.2oz

Germaben II 1% - 4.5oz

Allow Phase A to swell and hydrate fully with mixing and neutralize with Phase C. Mix Phase B clearly and stir it into neutralized Phase A+C.

The viscosity is adjusted by decreasing the carbomer.

Additionally, to incorporate fragrance, premix it with a solubilizer like Polysorbate 20 in Phase D.