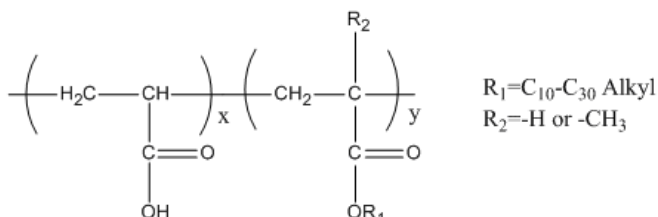


# Technical Data Sheet

## Sunpol 980(HC)

Carbomer  
CAS# 9003-01-4



### Feature

- Short flow properties
- High viscosity
- High clarity
- Benzene-free

### Specifications

Item	Specification
Appearance	Fluffy, white powder
Viscosity	13,000 ~ 30,000
(mPa·s, 20r/min, 25°C)	40,000 ~ 60,000
Solution clarity	≥ 85.0
(%, 420nm)	≥ 85.0
Residual Ethyl acetate / Cyclohexane (%)	≤ 0.45
Residual Acrylic Acid (%)	≤ 0.25
Loss on drying (%)	≤ 2.0
Bulk density (g/100ml)	19.5 ~ 23.5
Hg (ppm)	≤ 1.0
As (ppm)	≤ 2.0
Cd (ppm)	≤ 5.0
Pb (ppm)	≤ 10.0

### Application

It is used as a high-efficient rheology modifier, capable of providing high viscosity, excellent clarity for hair styling gels, hydroalcoholic gels, moisturizing gels, bath gels, hand-body and face lotions & Creams

### Formula Guidelines

- Typical recommended dosage : 0.2 ~ 1.0 wt%
- To disperse completely, it should be slowly and carefully sprinkled to dispersion medium while the mix is stirred rapidly to avoid formation of lumps; extremely high shear rate mixer should be carefully employed to avoid viscosity loss.
- The ideal viscosity can be achieved at pH ranges of 5.0 ~ 10.0 when neutralized; In a hydroalcoholic system, a correct neutralizer must be chosen carefully based on the amount of alcohol to be gelled.
- After neutralization, high-shear and lasting stirring should be avoided to keep stable thickening ability.

### Storage

Keep tightly closed in cool, dry and well-ventilated area

### Shelf Life

2 years