



# Cloud Chemicals

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## Clarifying Agent C-903

### Introduction

Clarifying agent C-903 is a high-performance sorbitol based clarifying agent that reduces haze and enhances the clarity of polypropylene through nucleation of the polymer. This also leads to enhanced toughness of the moulded part and to shorter cycle time during the moulding process. **C-903 is the 2nd Generation with improved quality which is ideal for food contact and medical applications.**

### Features/Benefits

Clarifying agent C-903 is used for producing high clarity polypropylene. The product acts as a clarifying agent, by creating a large number of small sizes spherulites (<1 $\mu$ m) during the cooling of the polypropylene melt. These small spherulites lead to a polypropylene that has greatly improved clarity and reduces haze compared to polypropylene which is not clarified.

### Physical Properties

**Appearance:** White powder

**Moisture content:**  $\leq$  0.01%

**Melting Point:** 240 $\pm$ 3 $^{\circ}$ C

**Bulk Density:** 0.2—0.6g/cm<sup>3</sup>

### Industrial Use

Clarifying agent C-903 is high effective clarifying agent for polypropylene homopolymer random copolymer. Clarifying agent C-903 could be blended with polypropylene powder through the dry mixing or the master batch and it gives high transparency and improves mechanical properties, heat resistance. The notified chemical will be applied in thin wall injection moulding, film sheet extrusion, blow moulding and rotational moulding. Clarifying agent C-903 helped make polypropylene more appealing to consumers and increased its usefulness through improved transparency. Leading injection moulding markets, the following products can be produced, including housewares, storage cases, living hinge cases, thin-wall containers and disposable syringes and clarified polypropylene blow moulded bottles for pharmaceuticals, spices, juices, sauces, vitamins, and baby bottles. The dosage for Homo PP, Random copolymer PP is recommended between 0.2%--0.3%.



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## Packing and Storage

Every 10 kg are packed in one kraft paper bag with PE liner, and single PE bag inside.  
To be stored under condition of shade, cool and dry with temperature of  $\leq 35^{\circ}\text{C}$ .