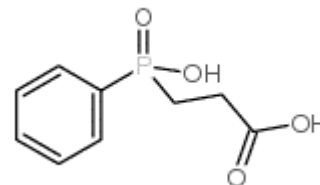


GC CEPPA

Chemical Name 3-(hydroxyphenylphosphinyl)propanoic acid
Chemical Formula $C_9H_{11}O_4P$
CAS registry number 14657-64-8



GC CEPPA is a reactive flame retardant, created for polyester and polyamide flame retardant properties modification. The polymerization process involves GC CEPPA generating polymer with good flame retarded and mechanical properties.

PHYSICAL-CHEMICAL PROPERTIES

| | |
|------------------------|--------------|
| Appearance | White powder |
| Phosphorous Content, % | min 13 |
| Chlorine content, ppm | max 100 |
| Iron Ion, ppm | max 50 |
| Acid Value, mg KOH/g | 522 ± 4 |
| Melting point, °C | min 158 |
| Volatiles, % | max 0.1% |

| | |
|-----------------------|--|
| HANDLING AND STORAGE: | The processing and use of GC CEPPA requires adequate technical and professional knowledge. Please consult safety data sheet for further handling, storage and toxicity information. GC CEPPA has to be stored in tightly sealed original container in a cool and well-ventilated area, away from direct sunlight. |
| PACKAGING: | Standard pack size of GC CEPPA is 25 Kg in plastic bags or 1MT Big Bag. |
| IMPORTANT NOTE | Some plastic additives, fillers or pigments can have a significant influence on flame retardant properties of the end product. Before using this product, please be informed. Machine stop at high temperature could create degradation of polymers. Please clean with neutral polymers. |

DISCLAIMER:

Information contained in this document is provided to the best of our knowledge and is considered true as per revision date. We do not accept any liability for loss and damage that may occur from the improper use of this information and for the use against the safety legal requirements and patent rights. This specification does not release the customer from the obligation to check the product as to its suitability for intended area of usage.