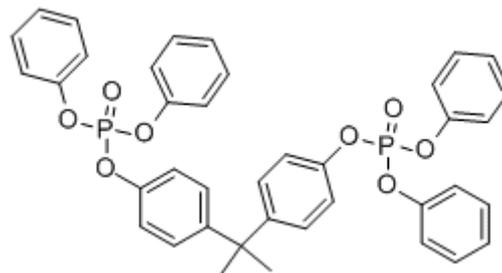


GC BDP

(1-methylethylidene)di-4,1-phenylene tetraphenyl diphosphate

Chemical Formula $C_{39}H_{34}O_8P_2$
Molecular Weight 693
CAS registry number 5945-33-5, 181028-79-5



GC BDP is a liquid phosphate flame retardant, which has a low volatility and is highly stable. GC BDP finds application in polycarbonate; polycarbonate blends with ABS, styrene acrylonitrile copolymer (SAN) and/or polyester (PET). GC BDP is also a processing agent for improving melt flow of thermoplastics. GC BDP has high heat resistance and hydrolytic stability compared to other phosphate esters. Typical dosage for flame retardant applications in various resins is from 8-20 %. For use as processing agent typical dosage is from 1-3%

PHYSICAL-CHEMICAL PROPERTIES

Appearance	Clear viscous liquid
Phosphorus content, %	8.9 min
Specific density, @ 25°C	1.26
Viscosity, mPa·s @ 70°C	120-220
Vapor Pressure, Pa @ 25°C	1.2×10^{-3}
Flash point, °C	300 min

HANDLING AND STORAGE: The processing and use of GC BDP requires adequate technical and professional knowledge. Please consult safety data sheet for further handling, storage and toxicity information.

GC BDP has to be stored in its tightly sealed original container in a cool and well-ventilated area, away from direct sunlight.

PACKAGING: Standard packaging size of GC BDP is in 250 Kg drum.

IMPORTANT NOTE

Some plastic additives, fillers or pigments can influence significantly on flame retardant properties. Before to use the products, please be informed. Machine stop at high temperature could create degradation of polymers. Please clean with neutral polymers.

NOTE:

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.