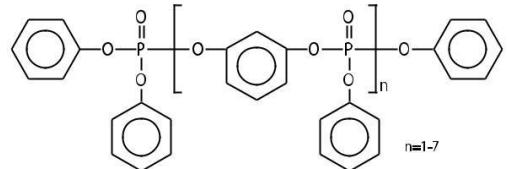


## GC RDP

**Reaction mass of 3-[(diphenoxypyrophosphoryloxy]phenyl triphenyl 1,3-phenylene bis(phosphate) and tetraphenyl 1,3-phenylene bis(phosphate)**



Chemical Formula  $C_{30}H_{24}O_8P_2$   
 EC number 701-337-2

GC RDP is an aryl phosphate that is used as a non-halogen flame retardant additive, as well as a plasticizer. GC RDP can be used as a substitute for halogenated flame retardants in casing materials and as a substitute for TPP (advantages are a lower volatility, a higher thermal stability, and a higher P-content compared to TPP).

GC RDP finds application in engineering resins such as PC, PPO/HIPS and PC/ABS, in applications such as business machines and computers. Furthermore, for technical thermoplastics in general, and for polyurethane systems (thermoplastic PU and PUR foams). GC RDP also serves as an auxiliary agent for processing thin-walled parts, by improving the flow of the fused mass. Compared to conventional acryl phosphates is less plasticizing and less volatile. GC RDP has excellent hydrolytic and heat resistant capabilities.

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### PHYSICAL-CHEMICAL PROPERTIES

Appearance	Clear liquid
Viscosity, mPas (25°C)	500-800
Specific Weight, g/cm <sup>3</sup>	~1.3
Acid value, KOH mg/g	0.5 max
TPP content, %	5 max

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**HANDLING AND STORAGE:** The processing and use of GC RDP requires adequate technical and professional knowledge. Please consult safety data sheet for further handling, storage and toxicity information.  
 GC RDP has to be stored in tightly sealed original container in a cool and well-ventilated area, away from direct sunlight.

**PACKAGING:** Standard packaging size of GC RDP is in IBC of 1200 Kg.

**IMPORTANT NOTE:** Some plastic additives, fillers or pigments can influence significantly on flame retardant properties. Before to use the products, please be informed.

**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 improperly 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.