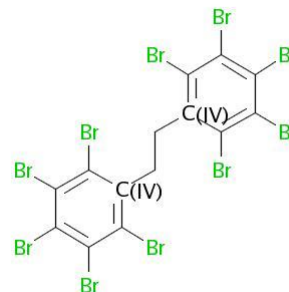


GC DPE 81

Decabromodiphenyl Ethane

Chemical Formula
 Molecular Weight
 CAS registry number

$C_{14}H_4Br_{10}$
 971.22
 84852-53-9



GC DPE 81 flame retardant has very good thermal stability and high bromine content making it a prime candidate for high temperature applications. It exhibits good UV resistance and hence is suitable for use in many applications requiring color stability. Because of its very good thermal stability and low blooming characteristics, it can be used in a wide range of high performance applications. It finds use especially in styrenic polymers, engineering resins, wire & cable and elastomers.

PHYSICO-CHEMICAL PROPERTIES

Appearance	White powder			
Bromine Content, %	81 min			
Whiteness, %	88 min			
Melting Point, °C	345 min			
Moisture, %	0,01 max			
Free bromine content, ppm	20 max			
Particle size, μm	3 max			
Specific Weight, g/cm^3	3,2			
Solubility, (a 25°C in 100g solvent)	Methanol:	< 0.01 g	Acetone:	< 0.01 g
	Water:	< 0.01 g	Toluene:	< 0.01 g
TGA (10 mg @ 10°C/min under N ₂)	Weight Loss	1%	5 %	10 %
	Temperature	314°C	344°C	359°C
			50 %	402°C

HANDLING AND STORAGE: The processing and use of GC DPE 81 adequate technical and professional knowledge. Please consult safety data sheet for further handling, storage and toxicity information.

GC DPE 81 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 DPE 81 is 25 Kg in plastic bags.

Important note

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

Stop machine with 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 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.