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Chlorendic Anhydride
Robust Summary

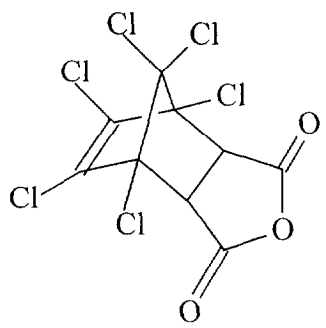
Chlorendic anhydride is a solid, reactive flame retardant used in the following applications:

- Unsaturated Polyesters
- Alkyd paints
- Flame retardant
- Hardener in epoxy resins
- Paints and coatings

Synonyms:

- CASRN: 115-27-5
- 1,4,5,6,7,7-Hexachloro-8,9,10-trinorborn-5-ene-2,3-dicarboxylic anhydride
- 1,4,5,6,7,7-Hexachlorobicyclo[2.2.1]-5-heptene-2,3-dicarboxylic acid anhydride
- 4,5,6,7,8,8-Hexachloro-3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1,3-dione; 1,4,5,6,7,7-Hexachloro-8,9,10-trinorborn-5-ene-2,3-dicarboxylic anhydride
- 4,7-Methanoisobenzofuran-1,3-dione, 4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro-

The structural formula is:



Chlorendic anhydride is a fine, white to yellowish crystalline solid with no distinctive odor.

Other typical properties include:

Molecular weight (average)	371
Specific Gravity	1.73 25 °C / 25 °C (H_20 = 1)
Vapor Density	13 (Air = 1)

Reference:

Velsicol Chemical Corporation: Product Information Bulletin. Chlorendic Anhydride. VCC97R02

CHLORENDIC ANHYDRIDE TEST PLAN

Study	Data Available	Data Acceptable	Testing Required
Boiling Point	Yes	Yes	No
Freezing Point	No	No	Yes
Vapor Pressure	No	No	Yes
Partition Coefficient	Yes	Yes	No
Water Solubility	Yes	Yes	No
Photodegradation	No	No	Yes
Stability in Water	No	Yes	No
Transport (Fugacity)	Estimation	Yes	No
Biodegradation	Yes	Yes	No
Acute Toxicity to Fish	Yes	Yes	No
Acute Toxicity to Aquatic Invertebrates	Yes	Yes	No
Acute Toxicity to Aquatic Plants	Yes	Yes	No
Acute Toxicity Oral and Dermal	Yes	Yes	No
Repeated Dose Toxicity	Yes	Yes	No
Developmental Toxicity	Yes	Yes	No
Reproductive Toxicity	No	No	No
Bacterial Reverse Mutation Assay	Yes	Yes	No
Genetic Toxicity Gene Mutation	Yes	Yes	No
Genetic Toxicity Chromosome Aberrations	Yes	Yes	No