

Exploration for catalysts for degradation of environmental pollutants

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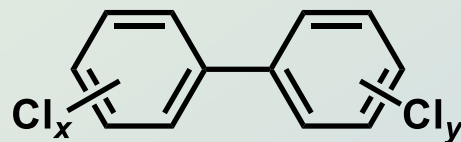
What's PCBs?

Structure; Chlorine-substituted benzene derivatives similar to dioxins (PCDDs)

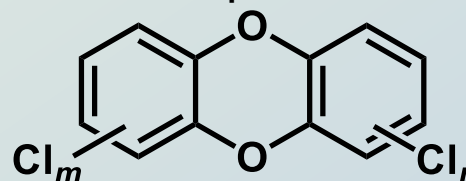
Properties; (1) hardly soluble in water (2) High chemical stability
(3) Excellent insulation properties (4) High boiling point (5) Toxic to humans
(6) Hardly degradable (remains in the environment for a long time)

Use; (1) Insulating oil (2) Heat medium (3) Non-carbon paper

Problem; Establishment of a simple and reliable decomposition method



PCBs



PCDDs

Detoxification Process of PCBs

PCBs can be detoxified by dechlorination. In this course, you will explore suitable catalysts for dechlorination reaction of PCBs.

