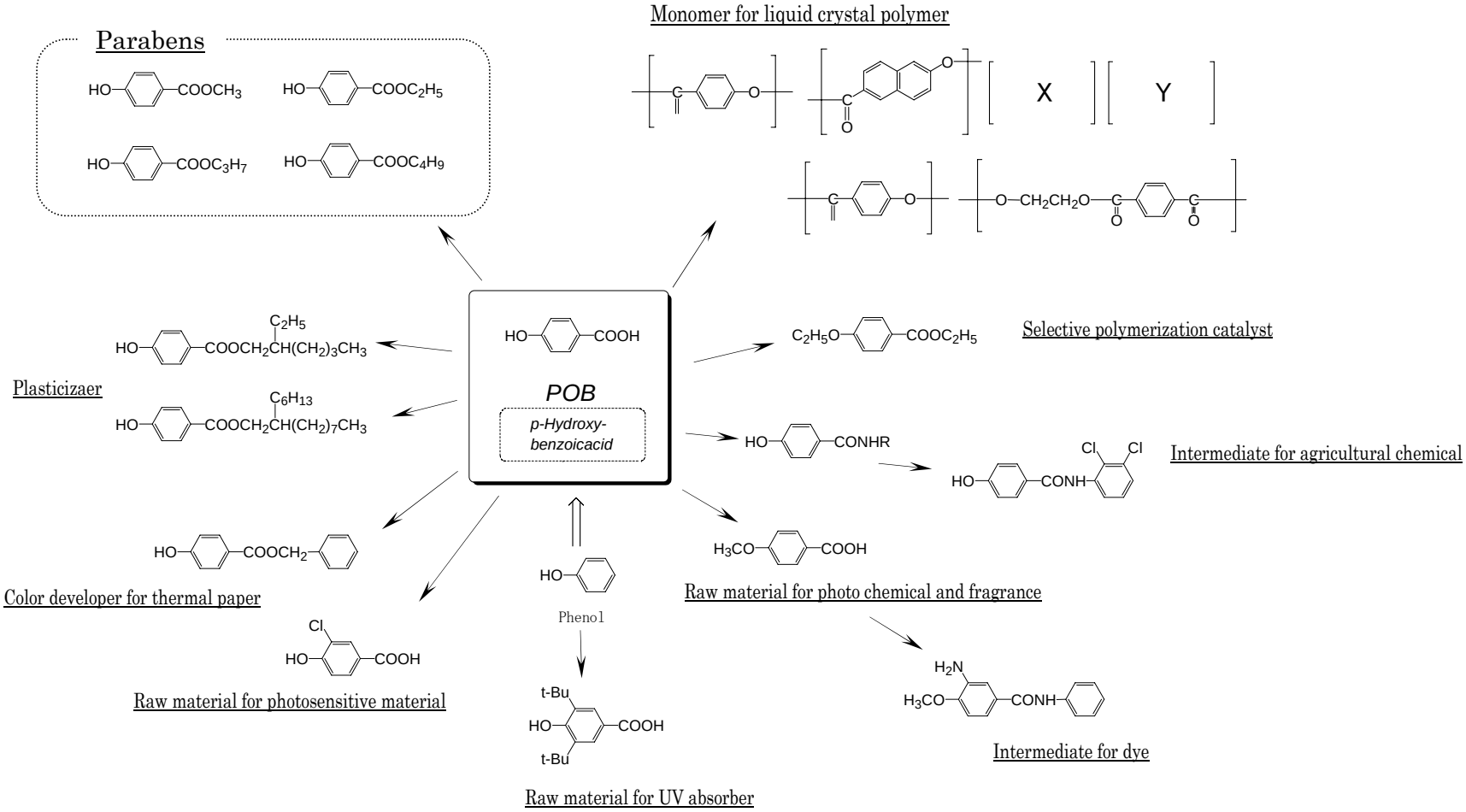Research & Application of POB-derivatives