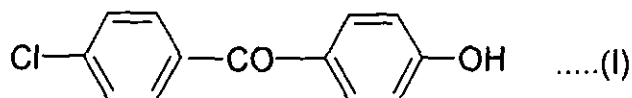


## Abstract

### 4-Chloro,4'-Hydroxy Benzophenone (I)



was prepared in 71-72% total yield and >99.5% purity. A one pot synthesis of I by acylation of phenol with 4-Chloro,4'-Hydroxy Benzophenone in the presence of  $\text{AlCl}_3$  and workup of the reaction mass to give Crude (I) in >95% purity and Yield of 85%. Crude (I) was further purified to give >99.5% pure (I). Thus to Phenol dissolved in ODCB is added  $\text{AlCl}_3$ . To this is added 4-Chloro,4'-Hydroxy Benzophenone, and the whole mass maintained at  $80^\circ\text{C}$  for 12 hours. The reaction mass is worked up by drowning in dilute HCl solution and Crude(I) of purity >95% ppts. out. This is further purified by to give >99.5% pure material in 71-72% yield