Production of Bisphenol A (BPA) By Green Technology

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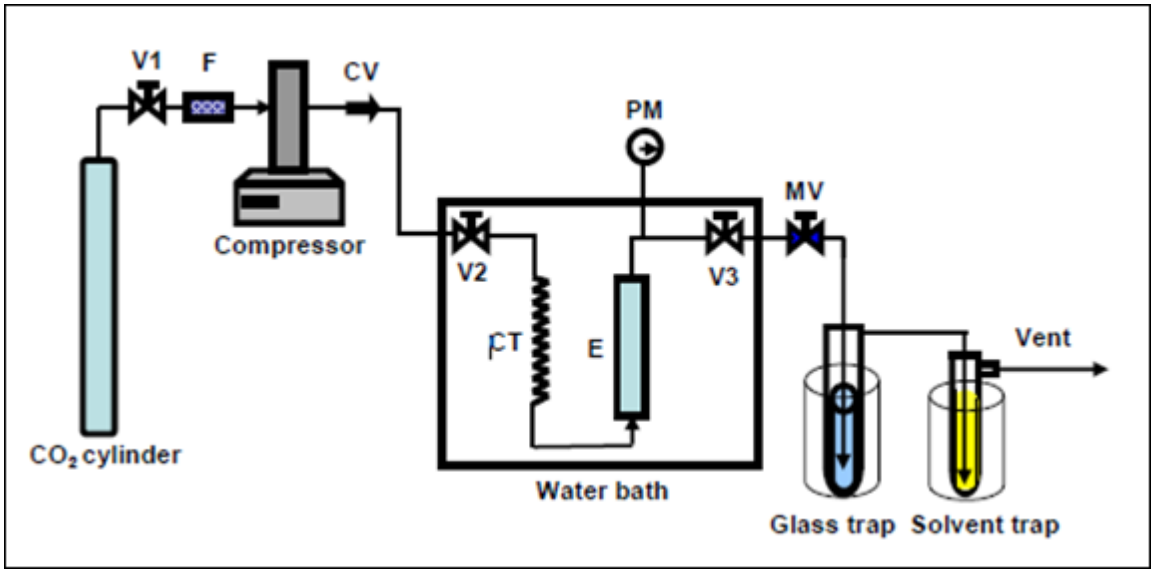
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Submission: January 11, 2018; **Published:** April 10, 2018

Abstract

The literatures and researches show that the reaction between phenol and acetone is too slow in the absence of catalyst, but it proceeds with formation of Bisphenol A (BPA) in the presence of acidic catalyst or any strong acid [1]. Although the BPA formation depends on the molar ratio of reactants (acetone and phenol), using a different solvents or catalysts will not deny the effect of the BPA on human health. It is only enhancing the reaction ratio between phenol and acetone and improves the selectivity. There are different catalysts and solvents have been tested and their effects on the process and BPA yields were evaluated. However, as the reaction proceeded to increase the water concentration, the inhibition effect of water reduces the reaction rate and gives low yield. This will not eliminate the impacts of BPA directly or indirectly on human health, it is only increased the quality of the product.

Keywords: Bisphenol A; Process; Reaction; Acetone; Catalyst; Concentration



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Biography

Altuwair Ibrahim has his expertise in evaluation and passion in improving the industrial process by environmental tools. His open and contextual evaluation model based on experimental trials to design new methods for improving chemical production of polymers. He has built this model after years of experience in research, evaluation, teaching and administration both in industry and education institutions. This Method is used for medication and herbal purposes and has a different way of focusing.

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