

## ABSTRACT

### **PROCESS FOR PRODUCTION OF 2,5-BIS-HYDROXYMETHYLFURAN, 2,5-BISHYDROXYMETHYLTETRAHYDROFURAN, 1,6-HEXANEDIOL AND 1,2,6-HEXANETRIOL FROM 5-HYDROXYMETHYLFURFURAL**

Industrial scale conversions of 5-hydroxymethylfurfural to commodity chemicals such as 1,2,6-hexanetriol and 1,6-hexanediol by chemocatalytic conversions using hydrogen and a heterogeneous reduction catalyst are provided. The reactions are suitable for use in continuous flow reactors. Methods of carrying out the conversions are provided, as are product and catalyst compositions.

[Figure 1]