Electronic Supplementary Information

Design of highly efficient Mo and W promoted SnO$_2$ solid acids for heterogeneous catalysis: Acetalization of bio-glycerol

Baithy Mallesham, Putla Sudarsanam, Gangadhara Raju, Benjaram M. Reddy*

Inorganic and Physical Chemistry Division, Indian Institute of Chemical Technology, Uppal Road, Hyderabad – 500 607, India

* Corresponding author. Phone: +91 40 2719 1714; fax: +91 40 2716 0921.
E-mail addresses: bmreddy@iict.res.in; mreddyb@yahoo.com (B.M. Reddy).
**Fig. S1.** Williamson–Hall plots of Sn (SnO$_2$), WSn (WO$_3$/SnO$_2$) and MSn (MoO$_3$/SnO$_2$) catalysts.
Fig. S2. FT-IR spectrum of Sn (SnO$_2$), WSn (WO$_3$/SnO$_2$) and MSn (MoO$_3$/SnO$_2$) catalysts.
**Fig. S3.** Reusability analysis of MSn (MoO$_3$/SnO$_2$) catalyst for the acetalization of glycerol with acetone.
**Fig. S4.** Reusability analysis of MSn (MoO$_3$/SnO$_2$) catalyst for the acetalization of glycerol with furfural.