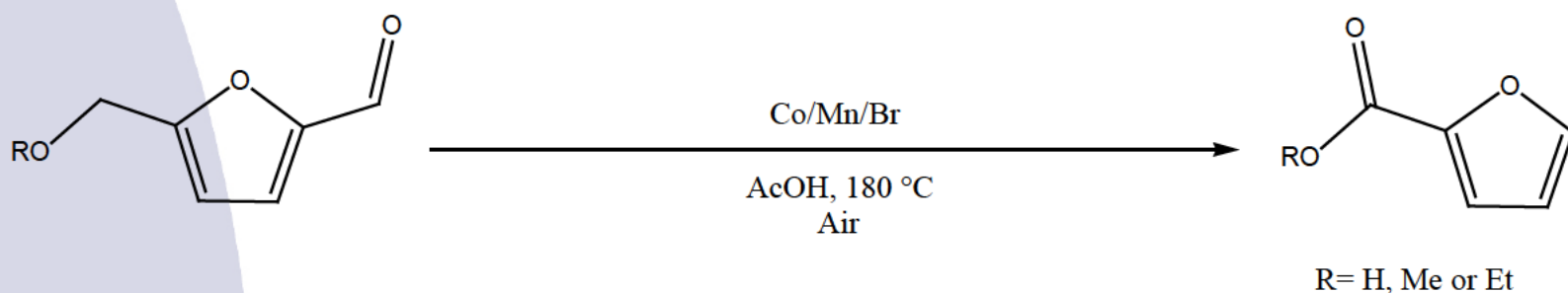


Co/Mn/Br Catalyst composition study AMF/HMF Oxidation.

Cesar Muñoz de Diego
Amsterdam 10-Sep-2009

Study of the influence of Co/Mn ratio



Fixed Conditions:

- Pressure: 20 bar.
- Catalyst loading: 4 mol % (Co+Mn)
- Solvent: Acetic acid.
- Temperature: 180 °C
- Reaction time: 60 minutes.
- Br/(Co+Mn): 0.7.

Variables:

- Co/Mn ratios (1/0; 80/1; 60/1; 40/1; 20/1; 10/1; 4/1; 2/2; 2/2; and 1/1)

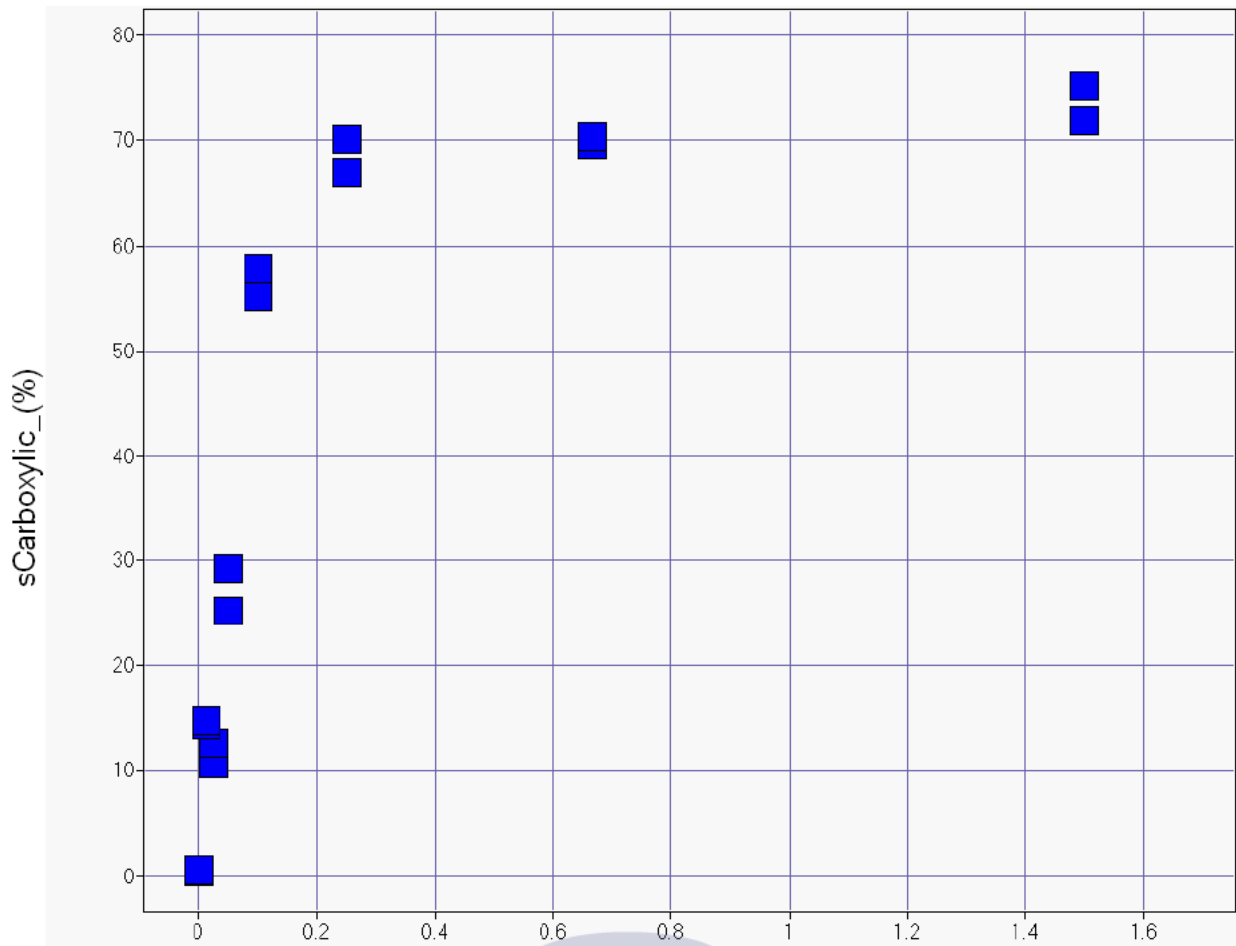
Study of the influence of Co/Mn ratio

- sDicarboxylics vs **Co/Mn** ratio



Study of the influence of Co/Mn ratio

- sDicarboxylics vs **Mn/Co** ratio



Study of the influence of Co/Mn ratio

Conclusions:

Both Cobalt and Manganese must be present in the catalytic solution in order to get a good performance

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