

Supplementary information

Influence of the modifiers on zirconia based Pt catalyst for glycerol valorisation

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1- 2-propanol reaction test

Table S1. Propan-2-ol conversion and products distribution obtained in the gas-phase propan-2-ol transformation test reaction at 200°C (time on stream, 2h). Sel. Acid: selectivity to products formed on acid sites (propene and diisopropyl ether); Sel. Basic or Redox: selectivity to products formed on basic or redox sites (acetone and diacetone alcohol).

Catalyst	Conversion (%)	S. Propene (%)	S. D.Ether (%)	S. Acetone (%)	S. DA (%)
ZrO ₂	0	0	0	0	0
B/ZrO ₂	2.77	34.39	1.73	63.88	0
Mo/ZrO ₂	61.66	79.32	2.54	18.14	0
W/ZrO ₂	95.48	100	0	0	0
Pt//ZrO ₂ -200	100	5.69	0	66.05	25.42
Pt//B/ZrO ₂ -200	97.25	6.08	1.98	75.66	18.81
Pt//Mo/ZrO ₂ -200	97.22	17.89	27.94	43.39	0
Pt//W/ZrO ₂ -200	99.06	99.27	0	0.73	0