

Supplementary Information for

Zn 1,3,5-Benzenetricarboxylate as an efficient catalyst for the synthesis of cyclic carbonates from CO₂

Chao Feng, Xianglei Cao, Liugen Zhang, Changyan Guo, Naeem Akram, Jide Wang*

Key Laboratory of Oil & Gas Fine Chemicals Ministry of Education, Xinjiang University, Urumqi 830046, Xinjiang, People's Republic of China.

* To whom correspondence may be addressed.

Tel.: +86-0991-8582807; Fax: +86-0991-8582807.

E-mail address: awangjd@sina.cn (J. Wang).

Table of contents:

Table S1. Cycloaddition of SO and CO₂ using catalysts or their precursors.

Table S1 Cycloaddition of SO and CO₂ using catalysts or their precursors.

Entry	Catalyst	SO Conversion (%)	SC Yield (%)
1	none	--	--
2	[Zn ₃ (BTC) ₂]	26.23	20.93
3	TBABr	50.68	41.66
4	[Zn ₃ (BTC) ₂]/TBABr	98.96	>99
5	Zn(acetate) ₂ ·2H ₂ O/TBABr	54.36	47.92
6	BTC/ TBABr	42.12	33.07
7	Zn(acetate) ₂ ·2H ₂ O/BTC/TBABr	48.56	38.91
8 ^b	[Zn ₃ (BTC) ₂]	86.65	84.32

Reaction conditions: SO = 20mmol, [Zn₃(BTC)₂] = 10mg, TBABr = 0.31×10⁻⁴mmol, Pressure = 13 bar,

Temperature = 130°C, Reaction time = 6 h.

^b Pressure = 30 bar, Temperature = 160°C, Reaction time = 24 h.