

Supporting Information

Simulation of CO₂ Capture Process in Flue Gas from Oxy-fuel Combustion Plant and Effects of Properties of Absorbent

Xiaoting Huang^{1,3}, Ning Ai^{1,2,*}, Lan Li², Quanda Jiang³, Qining Wang², Jie Ren^{1,*}, Jiawei Wang⁴

1 College of Biological Chemical Science and Engineering, Jiaxing University, Jiaxing;

2 College of Chemical Engineering, Zhejiang University of Technology, Hangzhou, Zhejiang, China;

3 ZheJiang Supcon Software Co., LTD, Hangzhou, Zhejiang, China;

4 Energy and Bioproducts Research Institute, Aston University, Birmingham B4 7ET, West Midlands, England; *

Corresponding author

Ning Ai: E-mail address: aining@tsinghua.org.cn;

Jie Ren: E-mail address: renjie@zjxu.edu.cn;

Table S1. The properties of ionic liquid solvent

Properties	Value
Inlet temperature(°C)	35.0
Outlet temperature(°C)	46.4
Flowrate(kmol/h)	8276.2