Supporting Information

A robust fully bio-based aromatic-aliphatic ketone epoxide monomer for high-performance epoxy resin containing imine structural moiety

Ziting Cao, Yang You, Yunqi Li, Caijuan Huang, Yaozhu Tian, Shihao Zhao, Qin Chen*, Haibo Xie*

Department of Polymeric Materials & Engineering, College of Materials & Metallurgy, Guizhou University, Huaxi District, Guiyang 550025, P.R. China.

Corresponding Authors:

Qin Chen, E-mail: qchen6@gzu.edu.cn

Haibo Xie, E-mail: hbxie@gzu.edu.cn

Supplementary Figures

Figure S1. ^{1}H NMR spectrum of **VL** (400 MHz, DMSO-d_6).

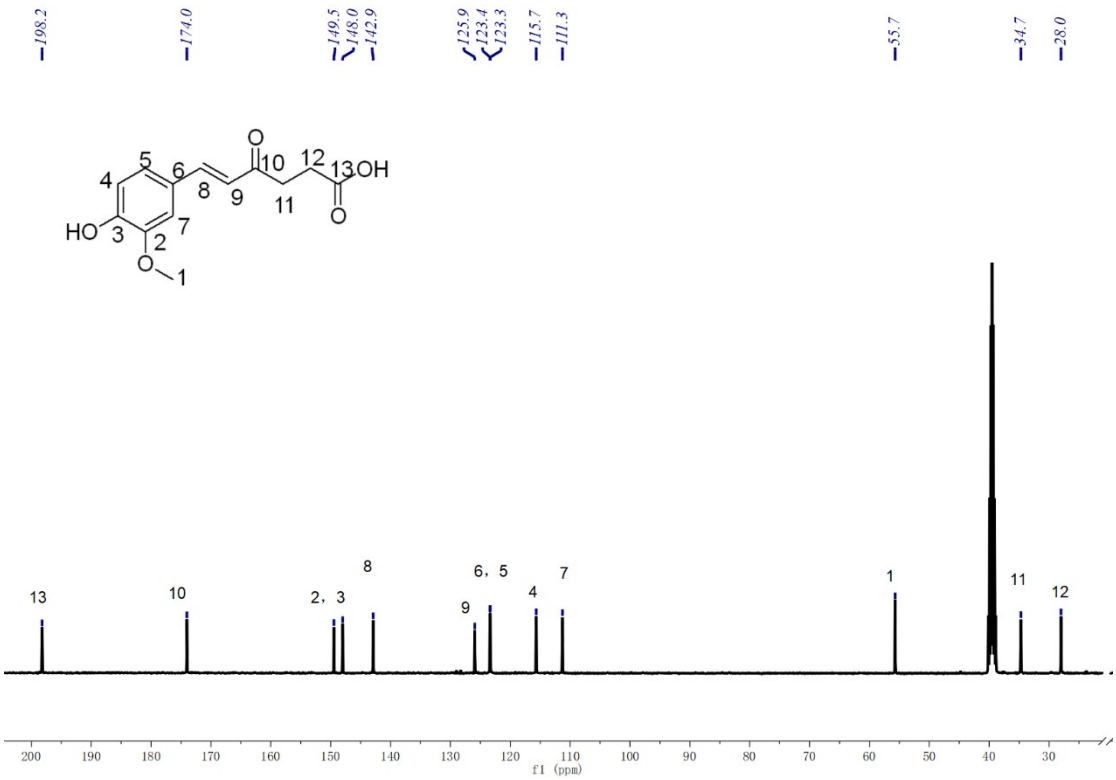

Figure S2. ^{13}C NMR spectrum of **VL** (100 MHz, DMSO-d_6).

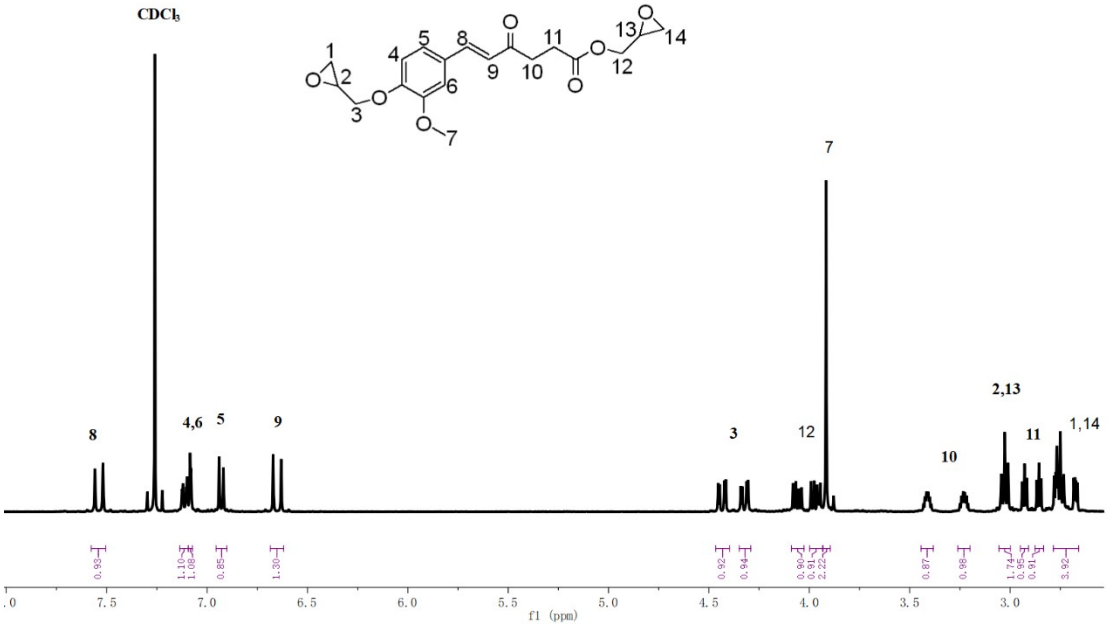

Figure S3. ^{1}H NMR spectrum of **VLE** (400 MHz, $CDCl_3$).

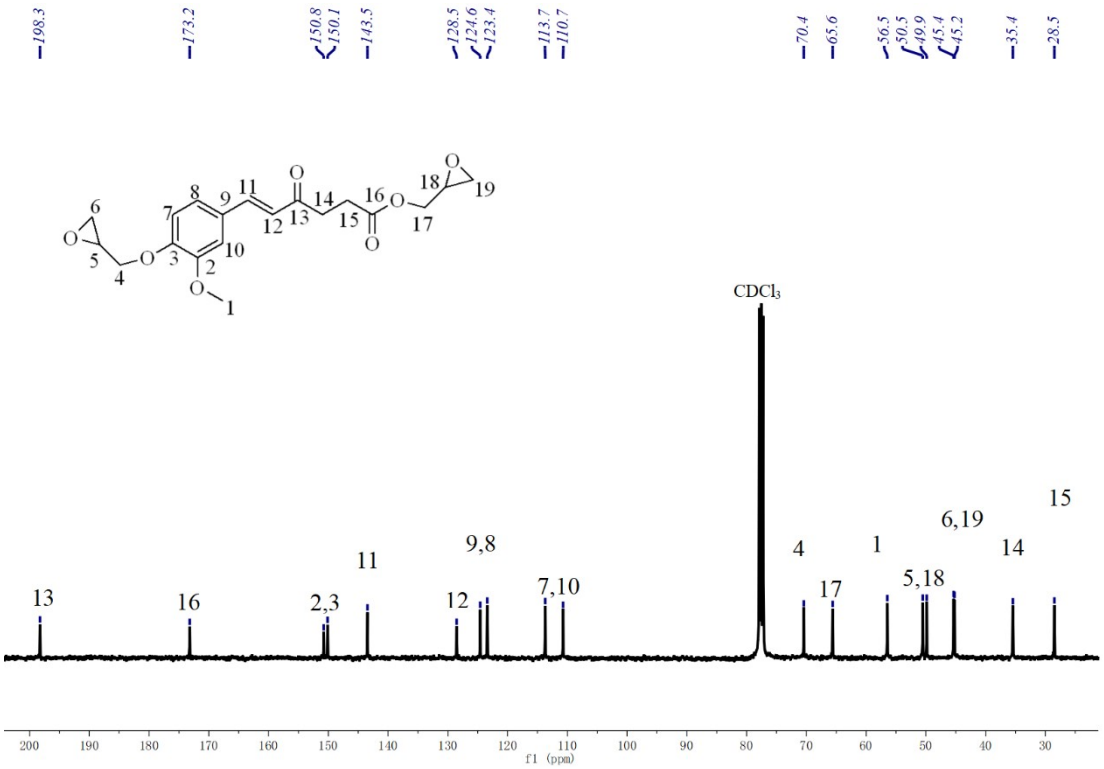

Figure S4. ^{13}C NMR spectrum of **VLE** (100 MHz, $CDCl_3$).

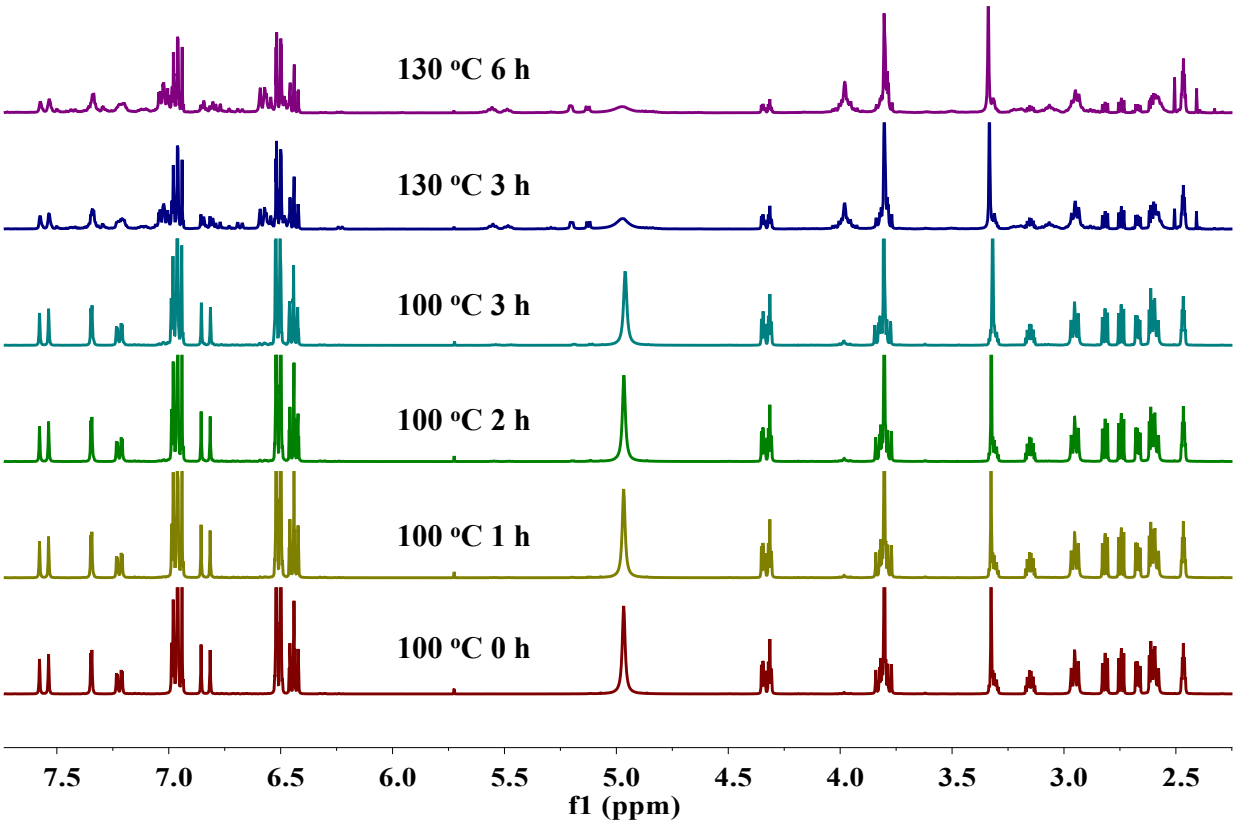

Figure S5. The *in-situ* ^{1}H NMR spectra of the model reaction between **VLE** and aniline.

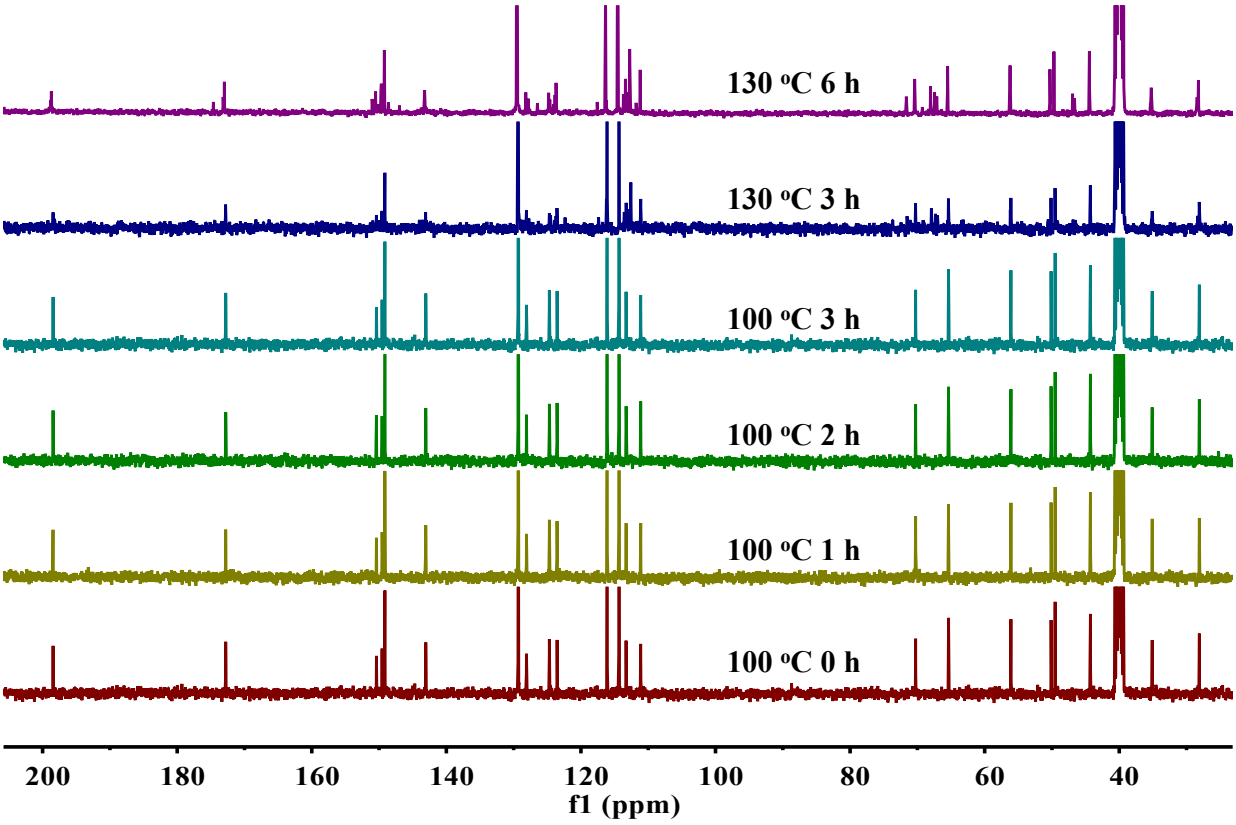

Figure S6. The *in-situ* ^{13}C NMR spectra of the model reaction between **VLE** and aniline.

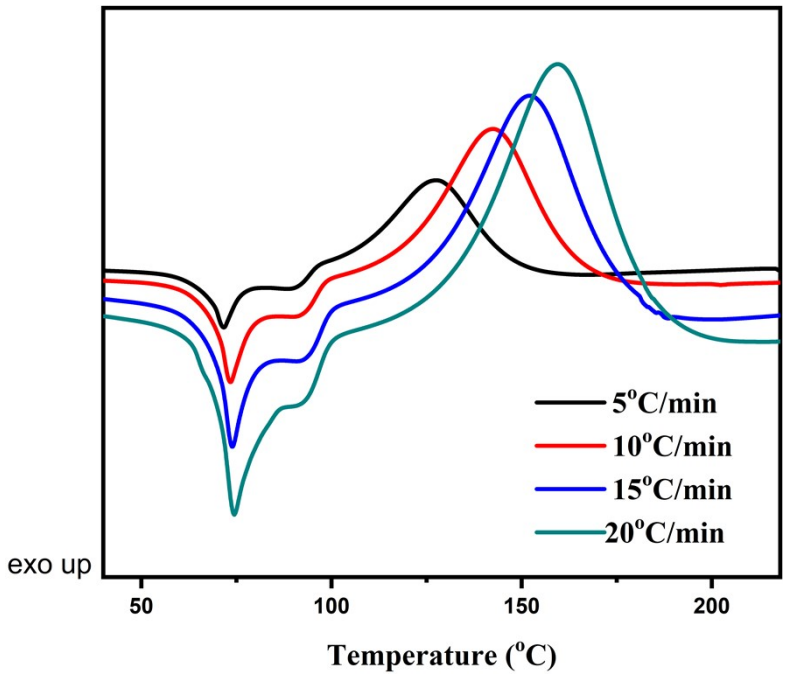

Figure S7. Non-isothermal DSC curves of the VLE_1-DDM_1 system at different heating rates

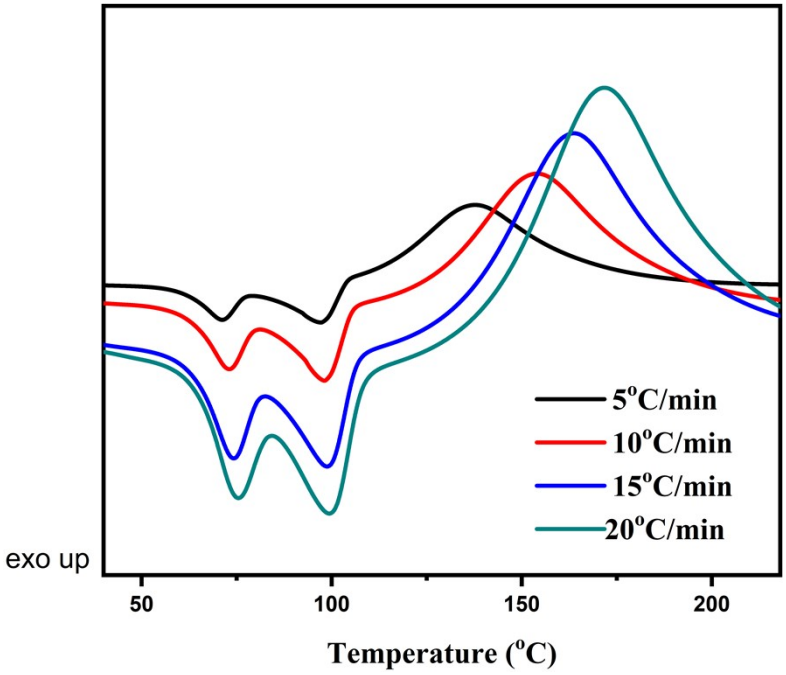

Figure S8. Non-isothermal DSC curves of the VLE_2-DDM_1 system at different heating rates

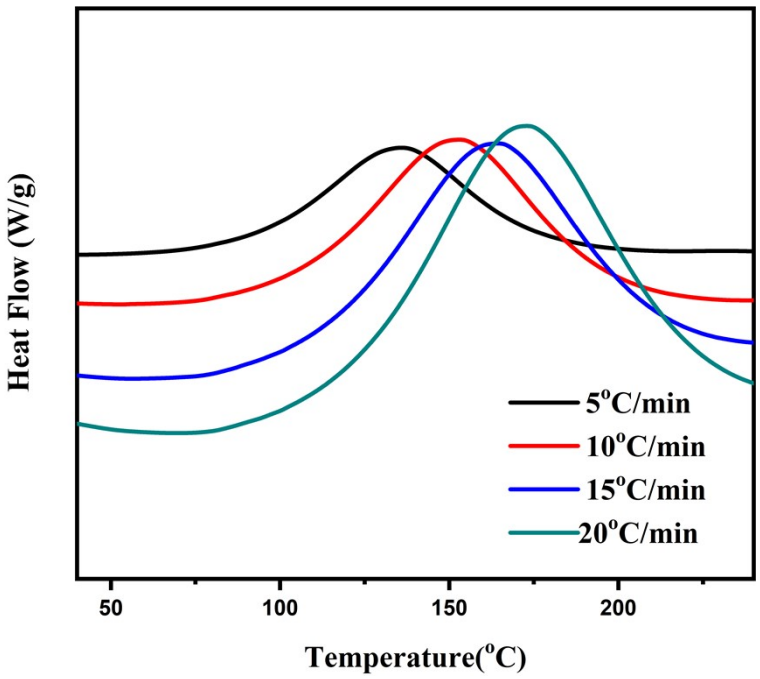

Figure S9. Non-isothermal DSC curves of the DGEAB-DDM system at different heating rates

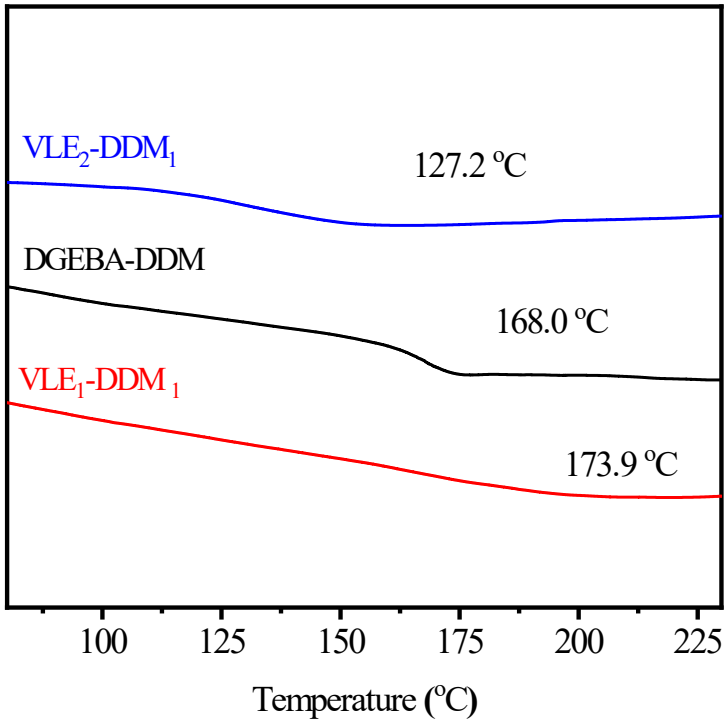

Figure S10. DSC curves of cured epoxy resins

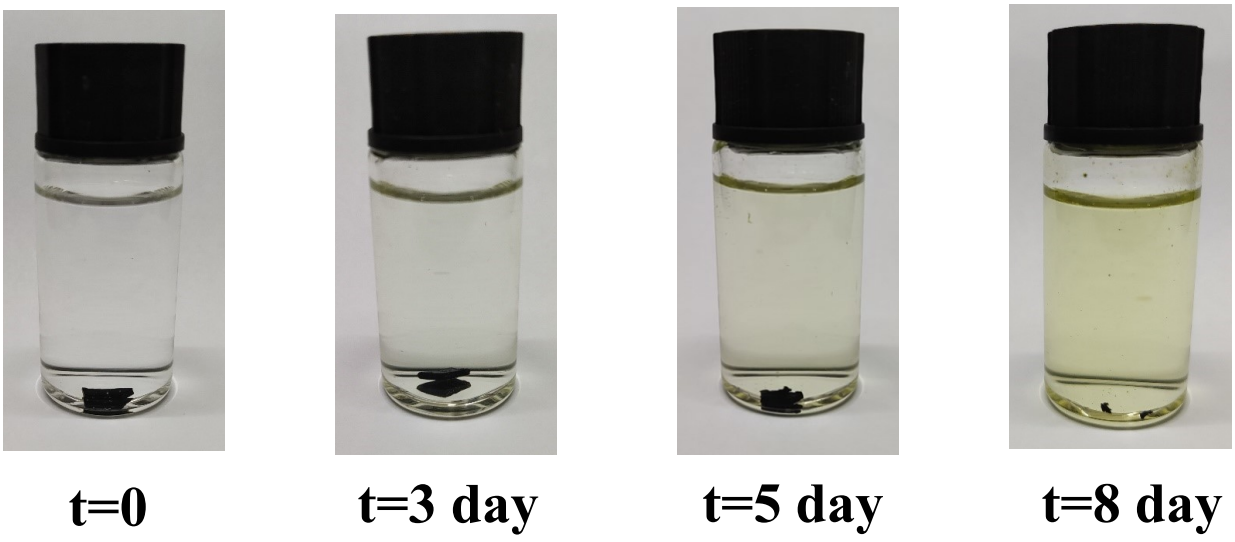

Figure S11. Degradation of VLE_1-DDM_1 in 0.1M HCL: CH_3OH=1:1