

Electronic supplementary information (ESI) for
A Biobased Low Dielectric Material at High
Frequency Derived from Resveratrol

Gang Huang, Linxuan Fang, Caiyun Wang, Menglu Dai, Jing Sun* and
Qiang Fang*

Key Laboratory of Synthetic and Self-Assembly Chemistry for Organic Functional
Molecules, Center for Excellence in Molecular Synthesis, Shanghai Institute of Organic
Chemistry, University of Chinese Academy of Sciences, Chinese Academy of
Sciences, 345 Lingling Road, Shanghai 200032, P. R. China.

CORRESPONDING AUTHOR FOOTNOTE

Corresponding Author:

*(Q.F.) E-mail: qiangfang@sioc.ac.cn.

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Table S1 Water uptake data of **P1**.

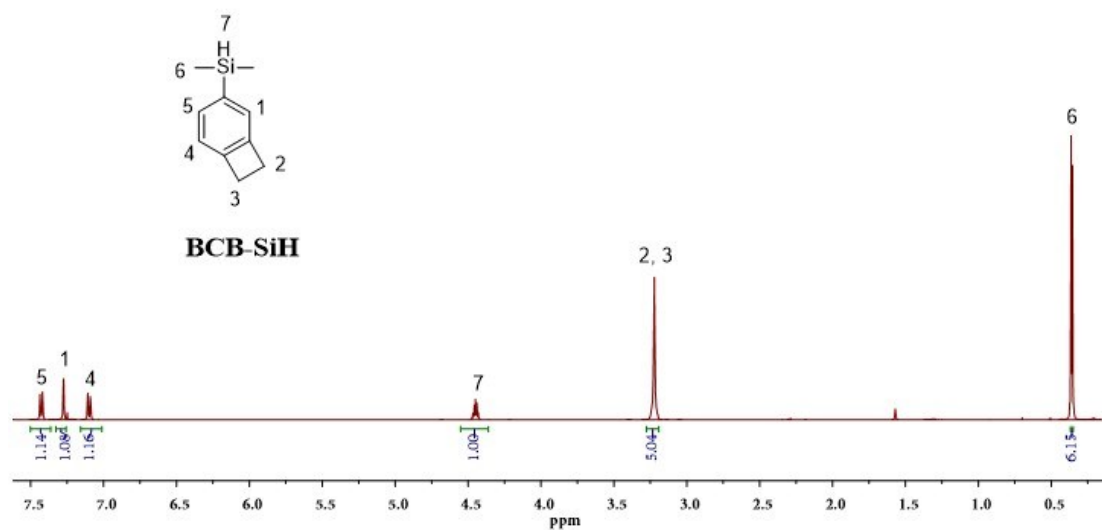


Fig. S1 ^1H NMR spectrum of **BCB-SiH** (500 MHz, CDCl_3).

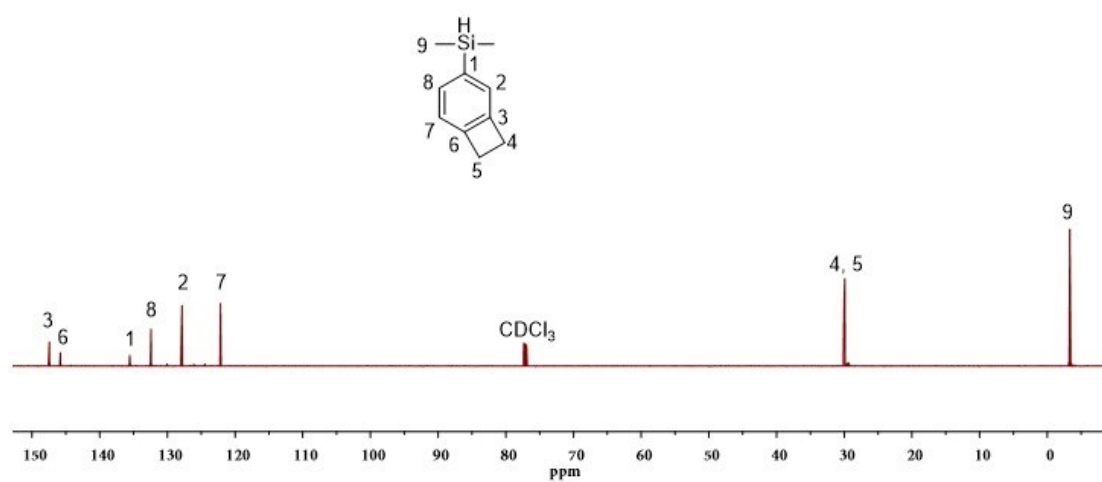


Fig. S2 ^{13}C NMR spectrum of **BCB-SiH** (150 MHz, CDCl_3).

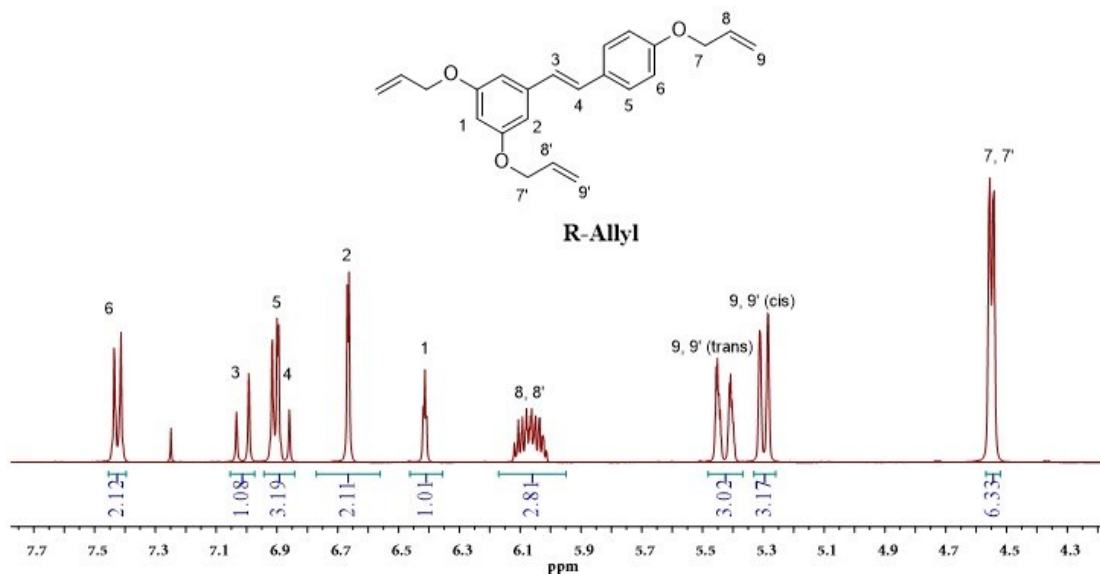


Fig. S3 ¹H NMR spectrum of **R-Allyl** (400 MHz, CDCl₃).

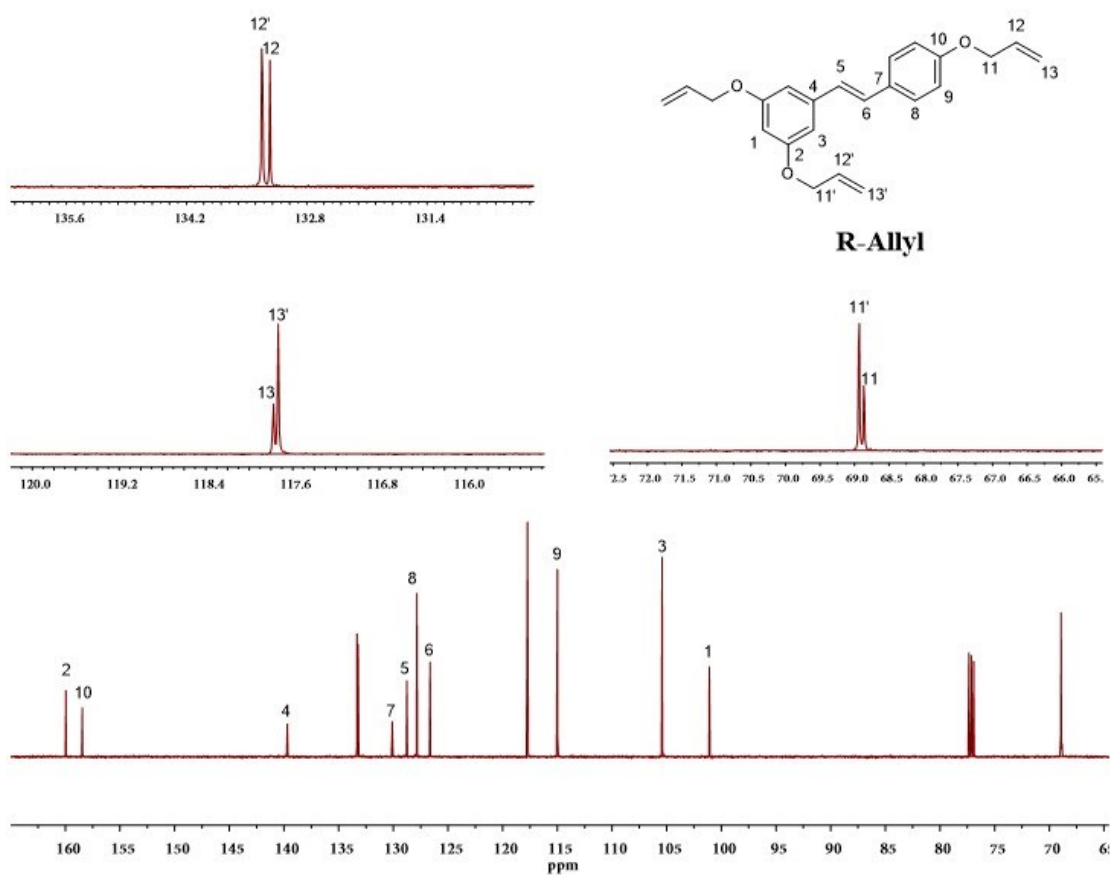


Fig. S4 ¹³C NMR spectra of **R-Allyl** (150 MHz, CDCl₃).

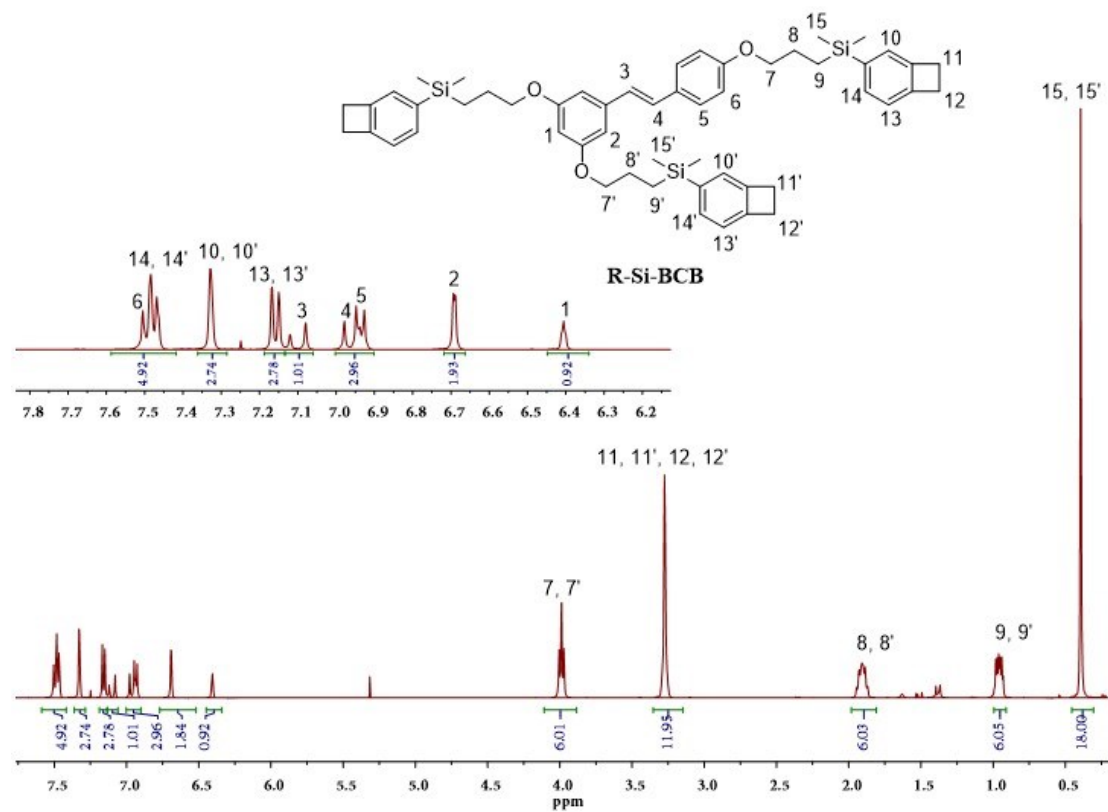
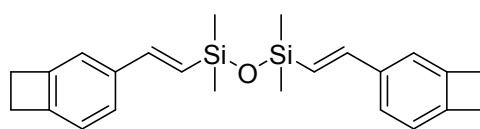


Fig. S5 ^1H NMR spectra of **R-Si-BCB** (400 MHz, CDCl_3).



DVS-BCB

Fig. S6 The chemical structure of **DVS-BCB**.

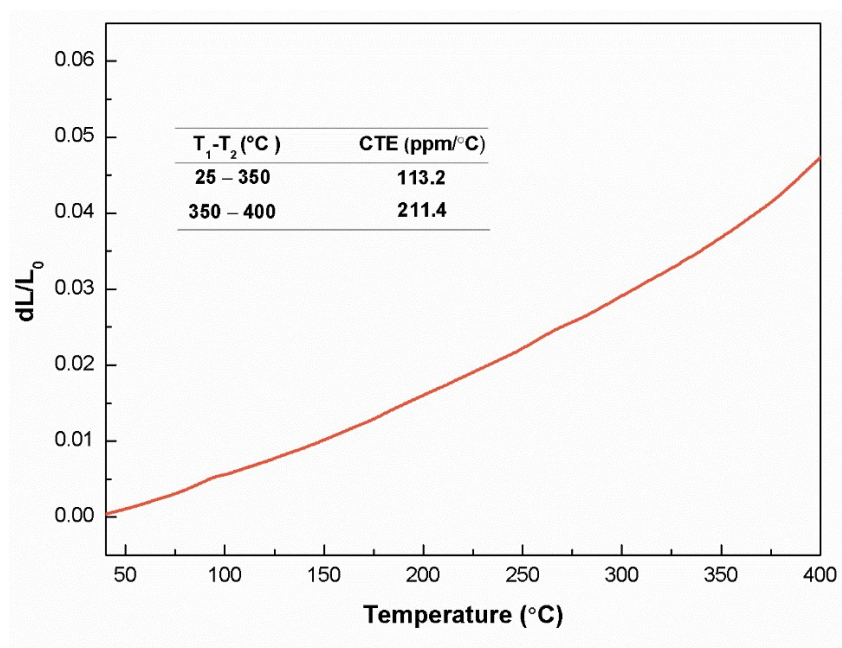


Fig. S7 The CTE curve of **P1** at a heating rate of 5 °C min⁻¹.

Table S1 Water uptake of **P1**.

Time (h)	0	6	12	24	48	72	96	120
Weight (g)	1.0651	1.0663	1.0669	1.0669	1.0669	1.0669	1.0669	1.0669
Water uptake (%)	0	0.11	0.17	0.17	0.17	0.17	0.17	0.17