

## Electronic supplementary information

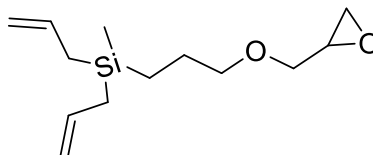
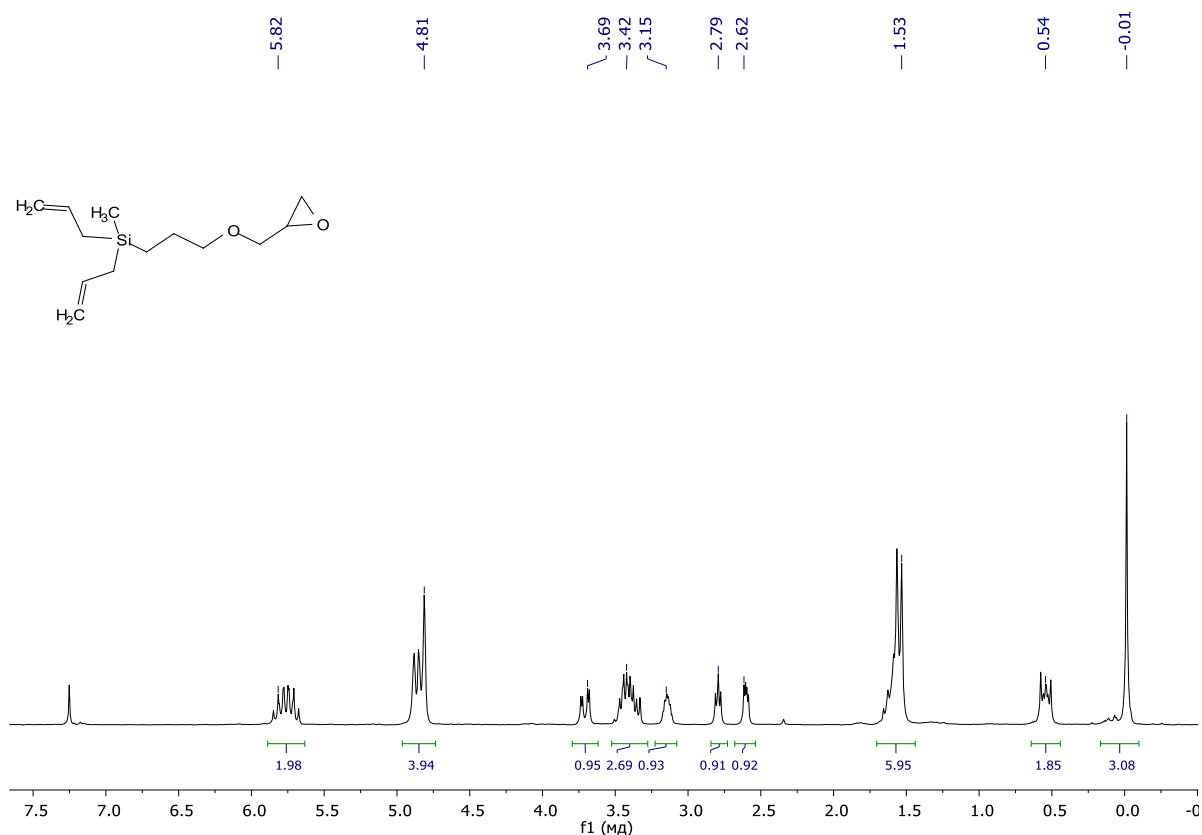
SILICON-CONTAINING DENDRIMER  
WITH LONG SPACERS BETWEEN BRANCHING POINTSK. S. Klokova,<sup>\*a</sup> S. A. Milenin,<sup>a,b,c</sup> F. V. Drozdov,<sup>a,b</sup> and A. M. Muzafarov<sup>a</sup><sup>a</sup> Enkolopov Institute of Synthetic Polymeric Materials, Russian Academy of Sciences,  
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Tolstoy Pedagogical University, pr. Lenina 125, Tula, Tula Oblast, 300026 Russia1. Structure, <sup>1</sup>H NMR spectrum, and GPC curve of diallyl(methyl)[3-(oxiran-2-ylmethoxy)propyl]silane (compound 1)

Figure S1. Structure of compound 1.

Figure S2. <sup>1</sup>H NMR spectrum of compound 1.

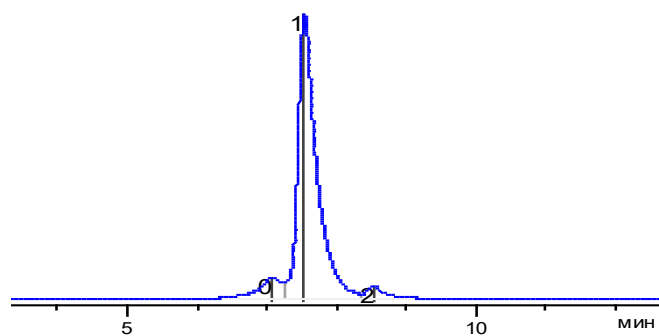


Figure S3. GPC curve of compound 1.

2. Structure and  $^1\text{H}$  NMR spectrum of 1-{3-[diallyl(methyl)silyl]propoxy}-3-(prop-2-yn-1-yloxy)propan-2-ol (compound 2)

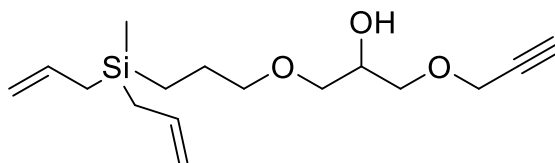


Figure S4. Structure of compound 2.

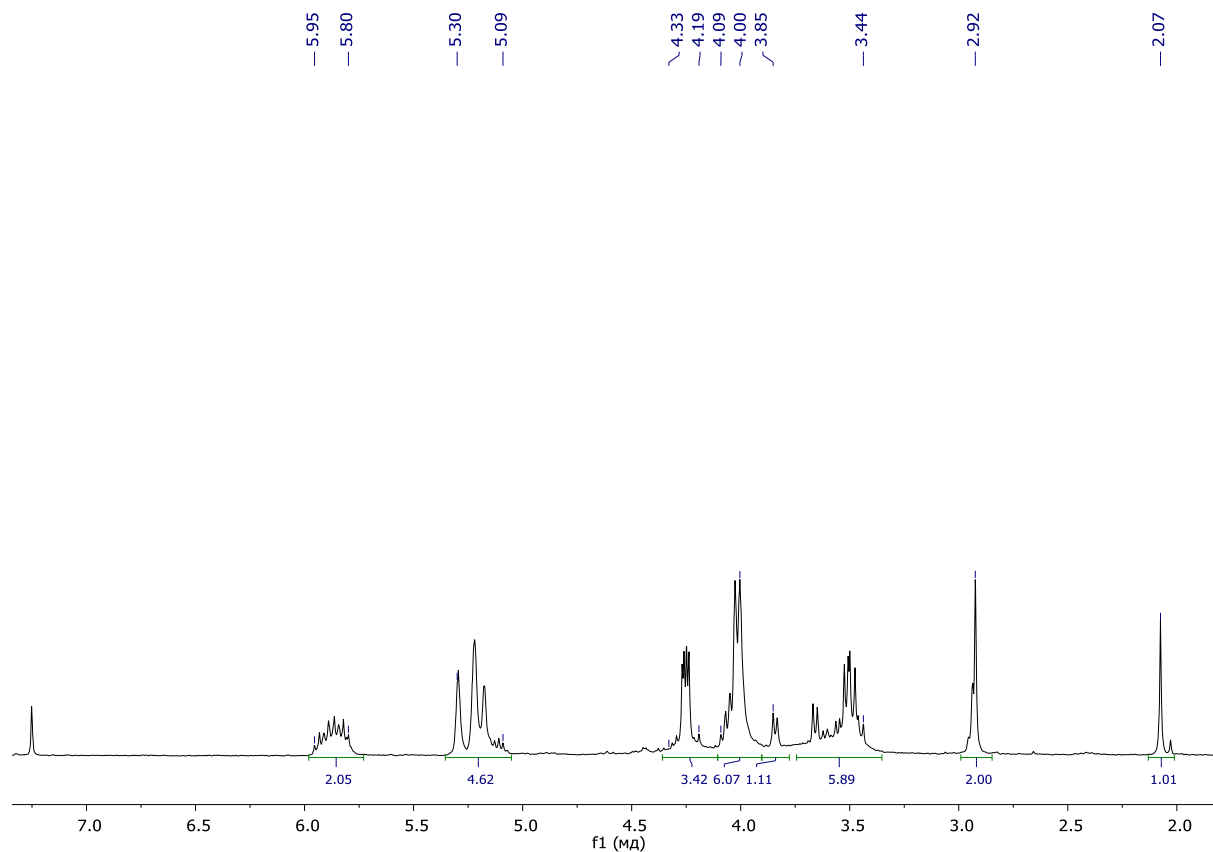


Figure S5.  $^1\text{H}$  NMR spectrum of compound 2.

### 3. Structure, $^1\text{H}$ NMR spectrum, and GPC curve of *S*-(11-chloroundecyl) ethanethioate (compound 3-2)

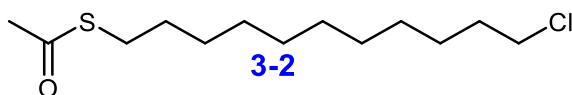


Figure S6. Structure of compound 3-2.

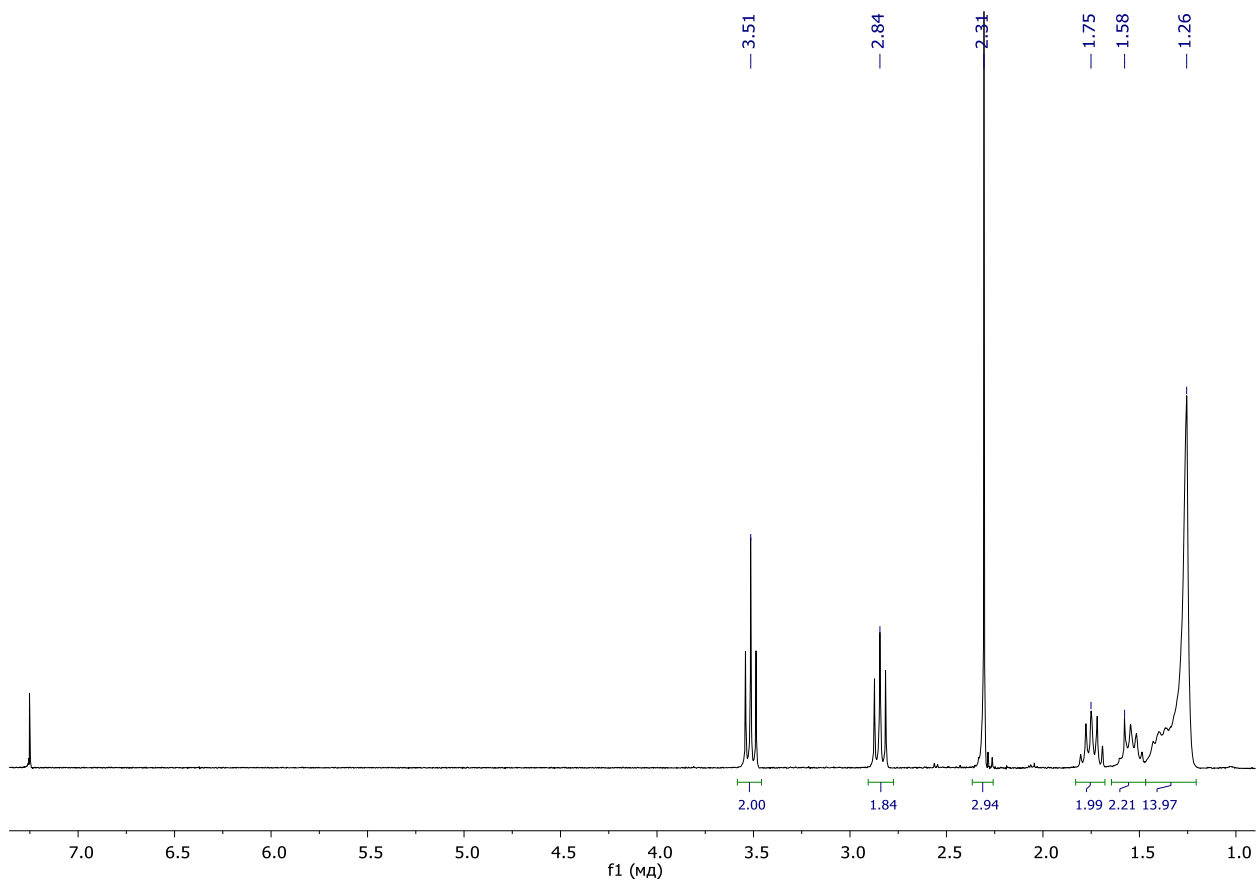


Figure S7.  $^1\text{H}$  NMR spectrum of compound 3-2.

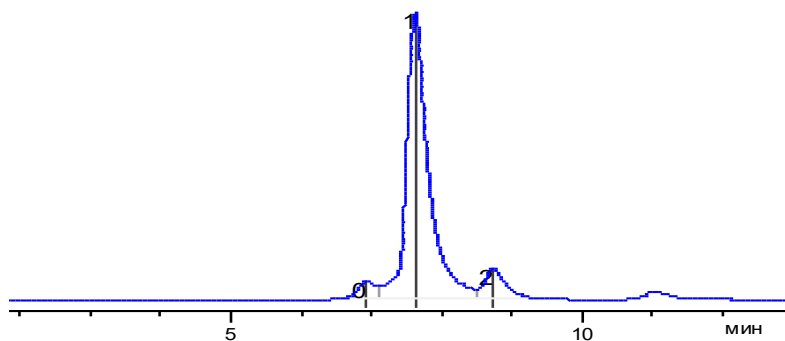


Figure S8. GPC curve of compound 3-2.

### 3.1. Structure, $^1\text{H}$ NMR spectrum, and GPC curve of 11-chloroundecane-1-thiol (compound 3-3)

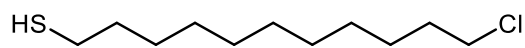


Figure S9. Structure of compound 3-3.

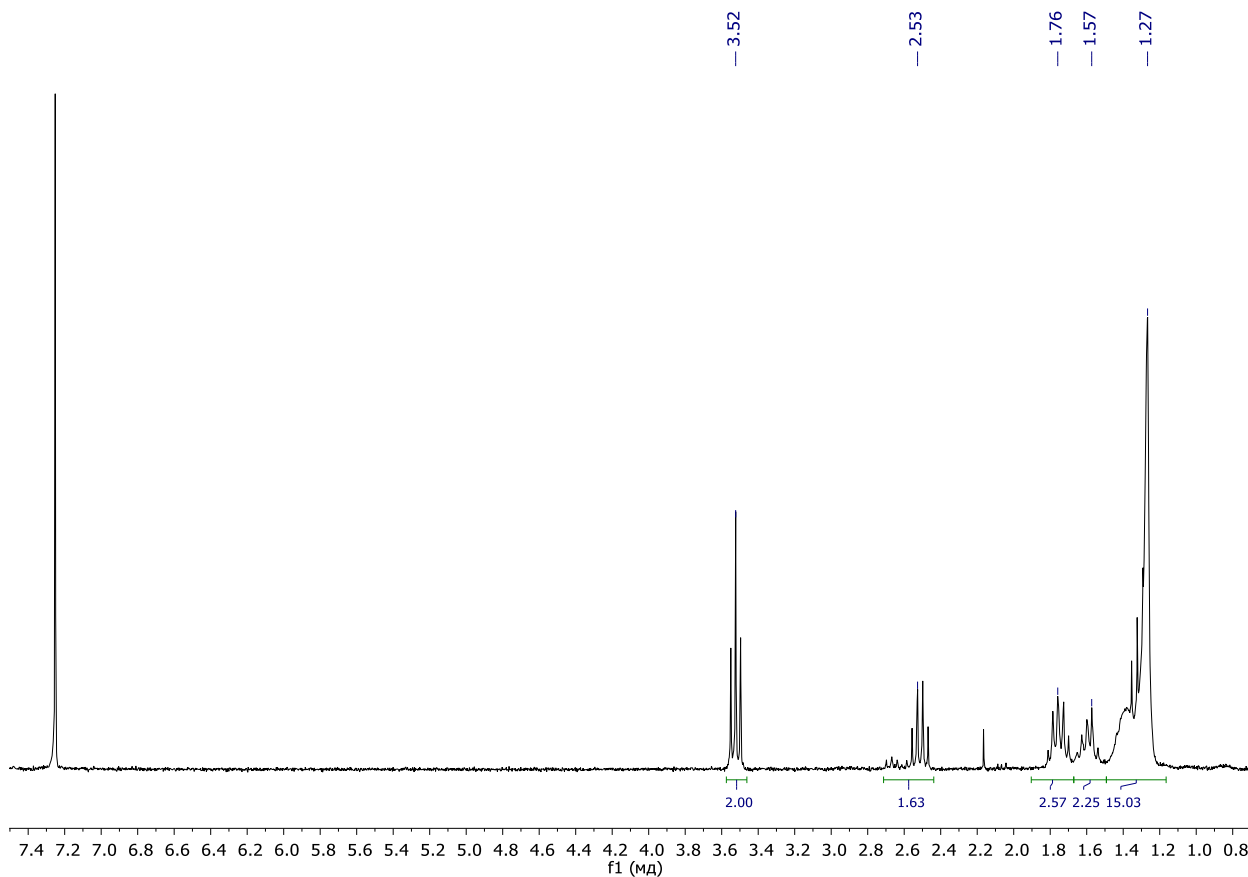


Figure S10.  $^1\text{H}$  NMR spectrum of compound 3-3.

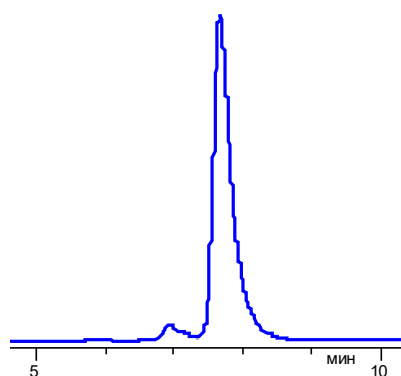


Figure S11. GPC curve of compound 3-3b

### 3.2 Structure, $^1\text{H}$ NMR spectrum, and GPC curve of 11-azidoundecane-1-thiol (compound 3-4)

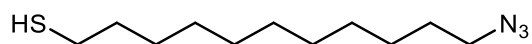


Figure S12. Structure of compound 3-4.

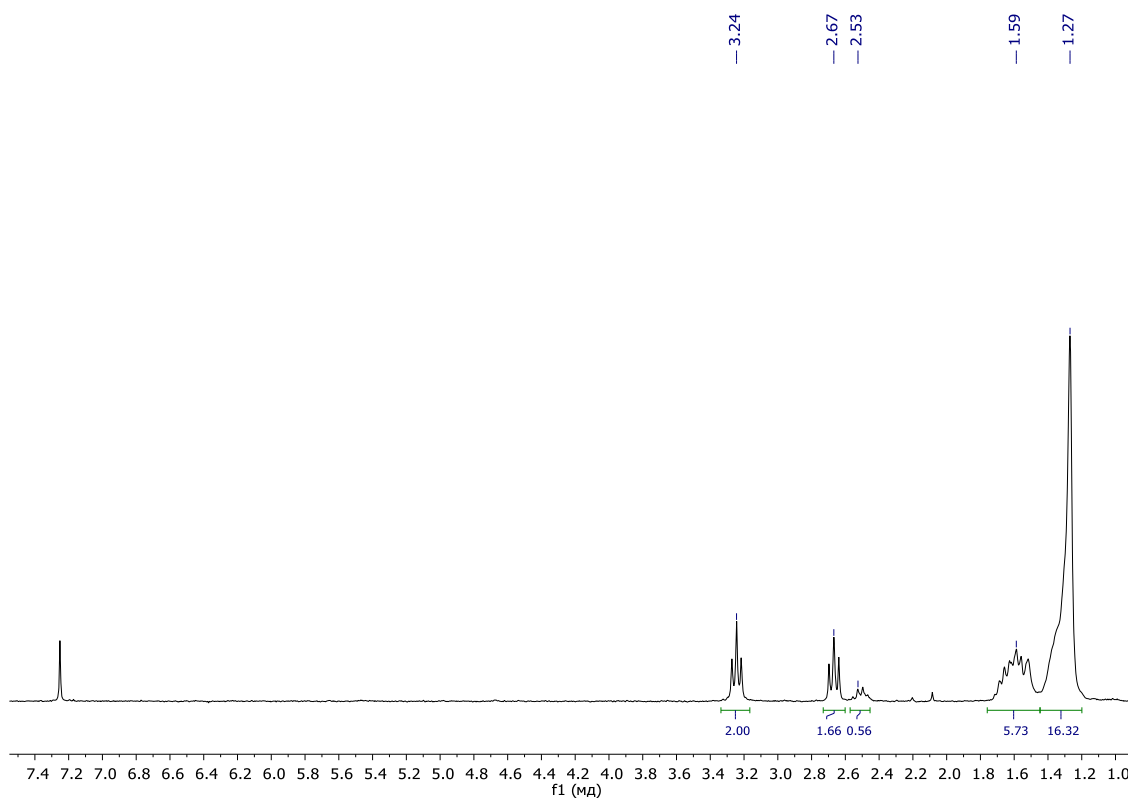


Figure S13.  $^1\text{H}$  NMR spectrum of compound 3-3.

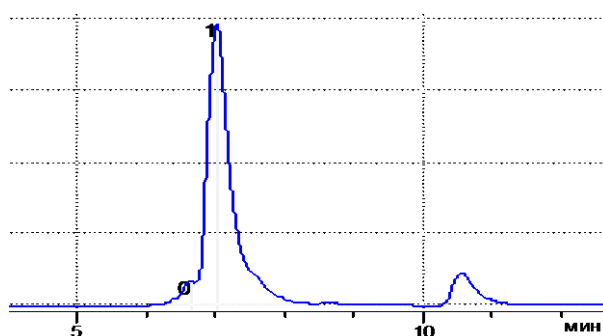
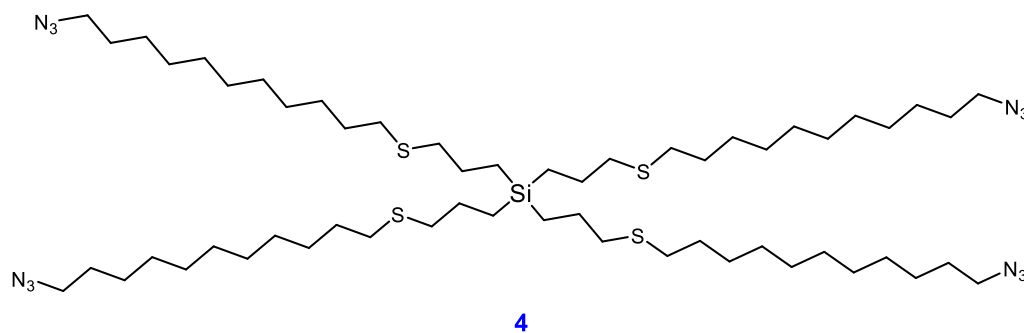


Figure S14. GPC curve of compound 3-2.

4. Structure,  $^1\text{H}$  NMR spectrum, and GPC curve of tetrakis{3-[(11-azidoundecyl)thio]propyl}silane (compound 4)



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Figure S15. Structure of compound 4.

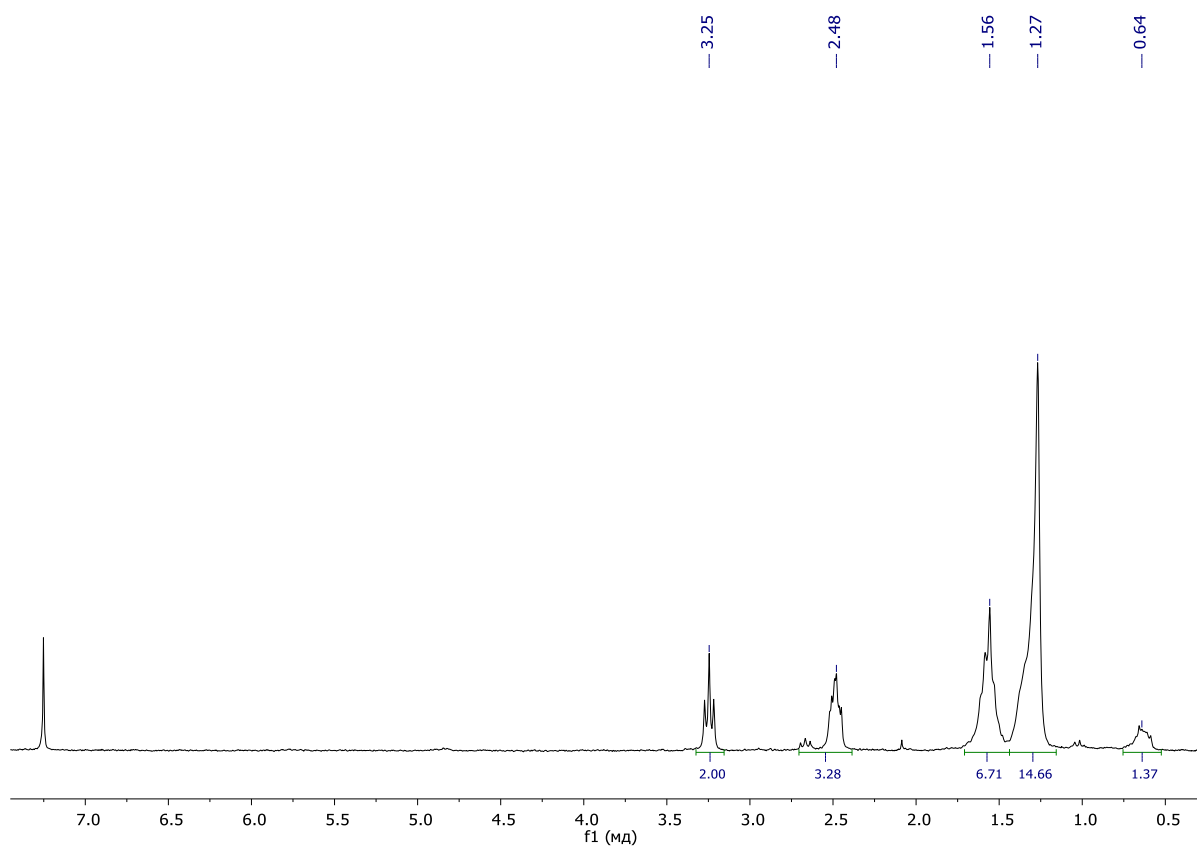


Figure S16.  $^1\text{H}$  NMR spectrum of compound 4.

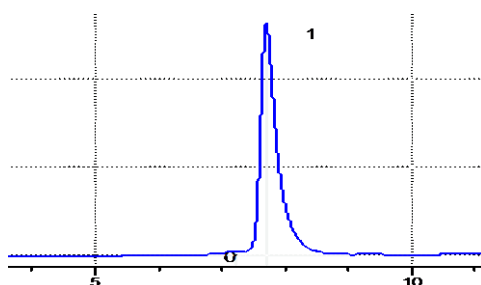


Figure S17. GPC curve of compound 4.

## 5. Structure and $^1\text{H}$ NMR spectrum of dendrimer G1

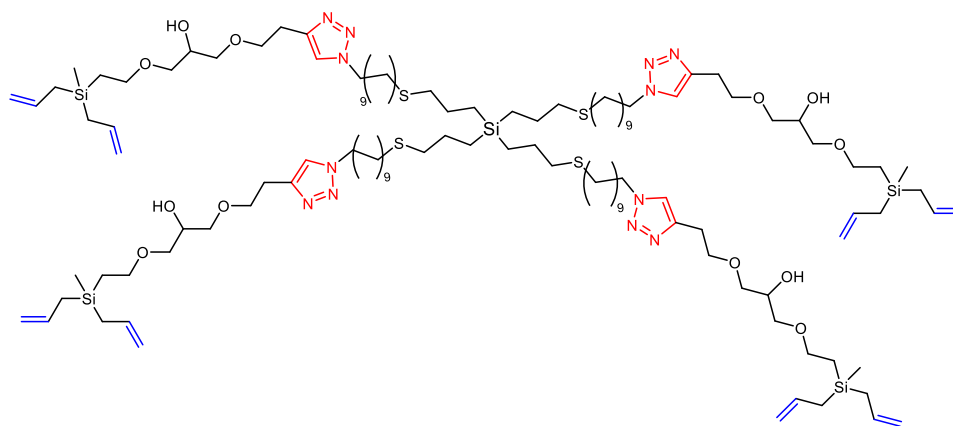
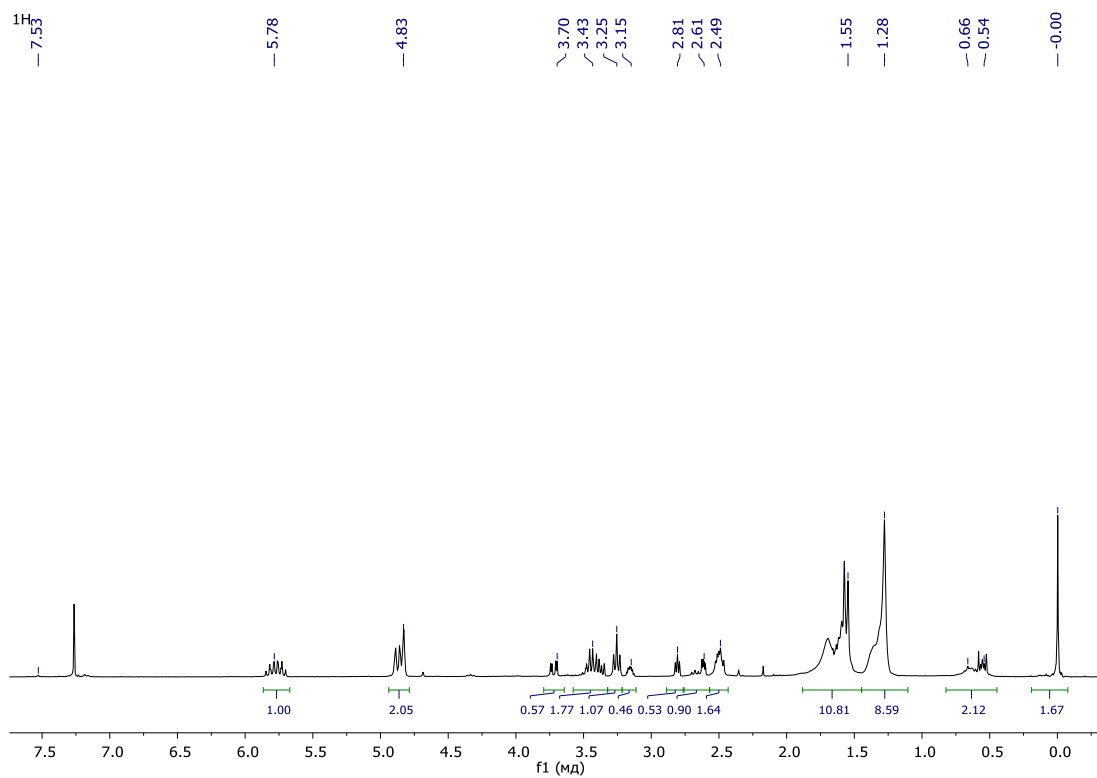


Figure S18. Structure of dendrimer G1.



**Figure S19.**  $^1\text{H}$  NMR spectrum of dendrimer **G1**.