

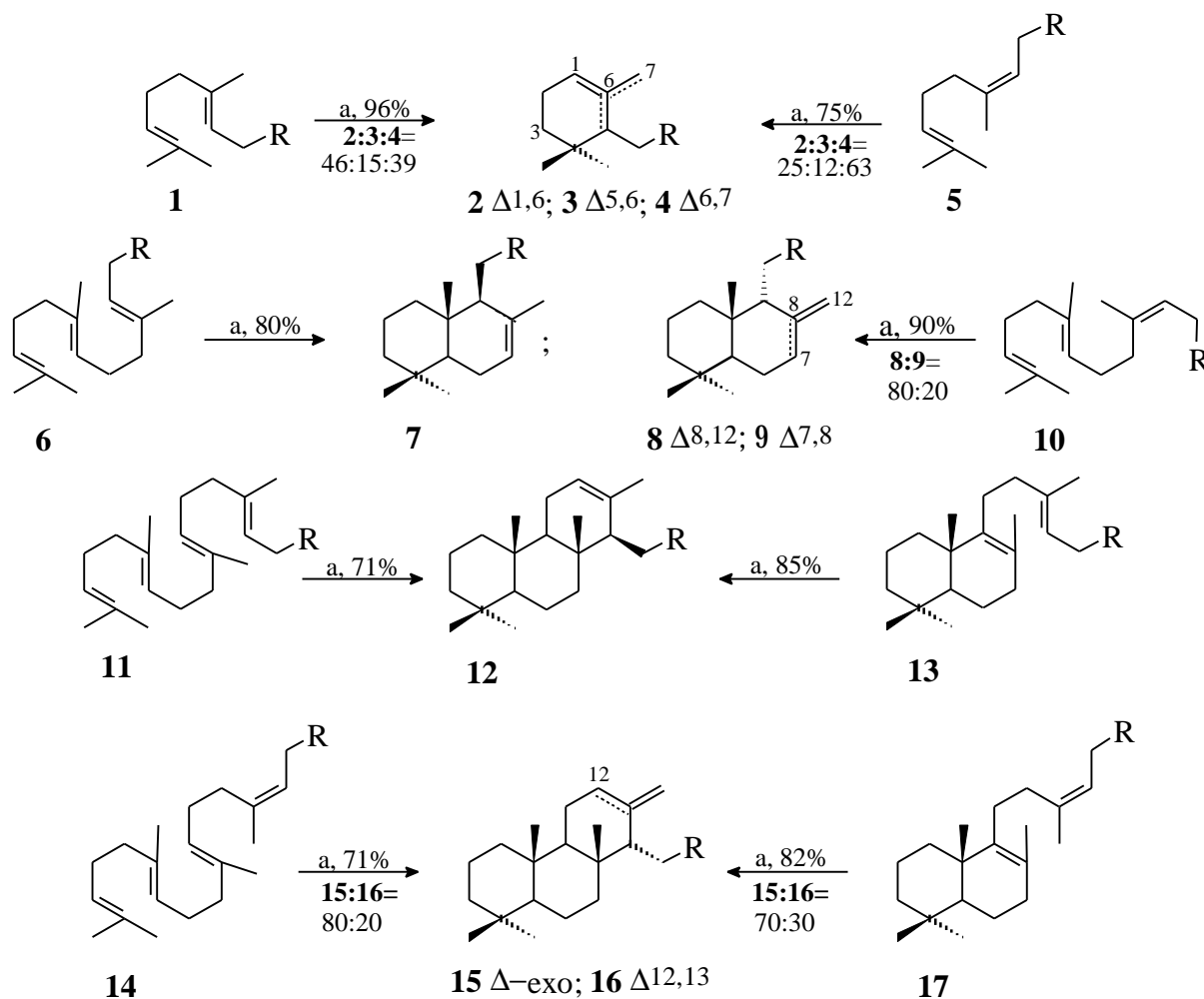
## Superacidic Cyclization of Terpenic Phenylsulfones

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The superacidic cyclization of a series of terpenic phenylsulfones (PhS) was studied. All-trans terpenic PhS **1**, **6**, **11**, and **13** led respectively to mixtures of isomeric cyclic PhS in which the  $\alpha$ -isomers predominated. Under the same reaction conditions the  $\alpha$ -cis PhS **5**, **10**, **14** and **17** afforded mixtures of cyclic isomeric PhS in which the  $\gamma$ -isomers prevailed. The cyclization reaction of PhS is stereospecific and structure-selective.



**Scheme.** *a.* FSO<sub>3</sub>H (5 mol-eq), *i*-PrNO<sub>2</sub>, -78°C, 15 min; R=SO<sub>2</sub>Ph.