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Synthesis of divinyl sulfide *via* addition of the hydrogen sulfide anion to acetylene in an alkaline metal hydroxide/DMSO superbasic system: A quantum-chemical insight

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Graphical Abstract

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$$H_2S + C_2H_2 \xrightarrow{KOH/DMSO} H_2C \xrightarrow{S} \xrightarrow{+ C_2H_2} S$$

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