

Chemical composition of garlic wood (*Gallesia integrifolia*) (Phytolaccaceae) volatile compounds and activity on cattle tick

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Supplementary material

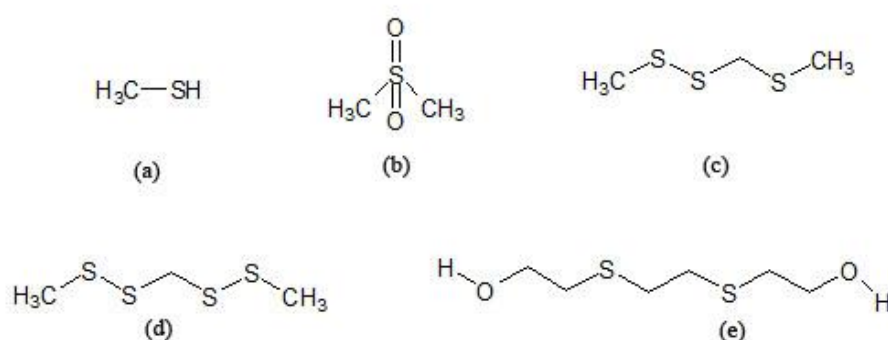


Fig 1. Chemical structures of major compounds found in *in natura* fruits of *Gallesia integrifolia* by dynamic *headspace* technique. (a) methanethiol, (b) dimethyl sulfone, (c) 2,3,5-trithiahexane, (d) 2,3,5,6-tetrathiaheptane, (e) 3,6-dithiaoctan-1,8-diol.

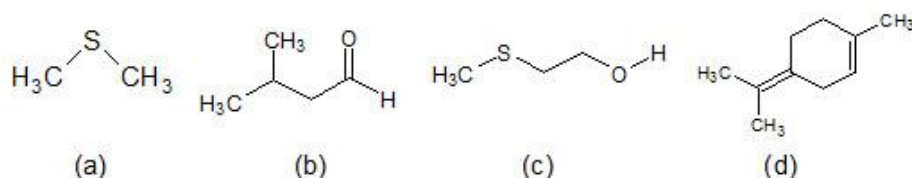


Fig 2. Chemical structures of major compounds found in *in natura* leaves of *Gallesia integrifolia* by dynamic *headspace* technique. (a) dimethyl sulfide, (b) 3-methylbutanal, (c) ethanol, 2-(methylthio), (d) α -terpinolene.

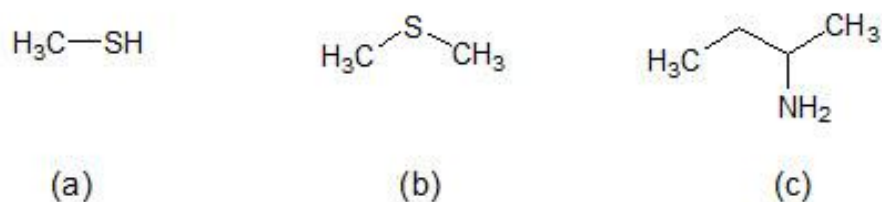


Fig 3. Chemical structures of major compounds found in *in natura* flowers of *Gallesia integrifolia* by dynamic *headspace* technique. (a) methanethiol, (b) dimethyl sulfide, (c) 2-butanamine.

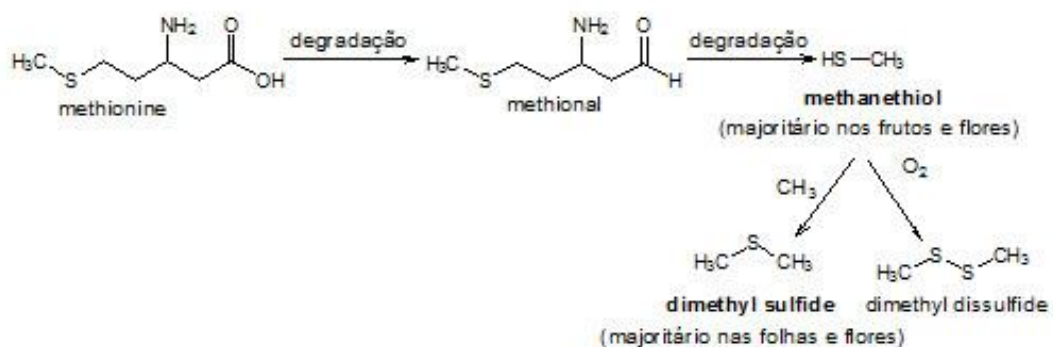


Fig 4. Scheme of sulfur compound formation found in *Gallesia integrifolia*.

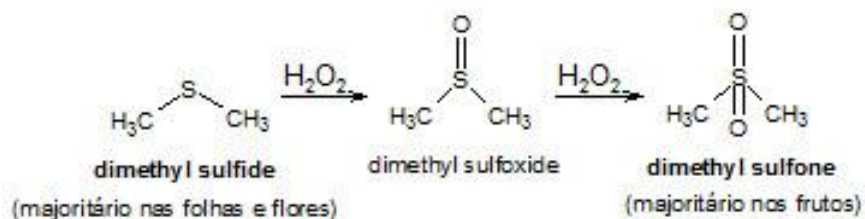


Fig 5. Oxidation of dimethyl disulfide into the formation of dimethyl sulfone.