

Method for preparing 6-methyl-2-(3-methyl-2-butenyl) thio-1,2,4-triazine-5(2H)-one involves alkylating the starting material with 3-methyl-2-butenyl chloride in a 1:1 ratio of 6-methyl-3-thio-1,2,4-triazine to alkenyl chloride in dimethylformamide. Wherein, an aqueous solution of the potassium salt of 6-methyl-3-thio-1,2,4-triazine-5(2H)-one is first prepared by heating to 70 °C, then cooled to 40 °C. 3-methyl-2-butenyl chloride in ethanol is added in a 1:1.3 ratio and the synthesis is carried out under vigorous stirring. The precipitate formed after the reaction mixture has cooled completely is filtered off, and the resulting substance is identified as 6-methyl-2-(3-methyl-2-butenyl)thio-1,2,4-triazine-5(2H)-one.