

From Pine to Perfume: Valorization of softwood extracts for the preparation of renewable ingredients for the fragrance industry.

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CST (Crude Sulfate Turpentine) is an upcycled, biomass raw material derived from pinewood, obtained as a by-product of the Kraft process from the pulp and paper industry. This process represents an alternative to gum turpentine (GT), historically collected manually from pine trees. The presentation will cover the industrial isolation of alpha- and beta-pinene from CST or GT turpentine, as well as the transformations of these materials into renewable perfumery ingredients. These processes allow DRT/Firmenich to propose an alternative to petrochemical synthetic routes.

[1] G. Sagorin, E. Cazeils, J.-F. Basset, M. Reiter, *Chimia*, **2021**, 75, 780-787.