

# **Tall Oil Extraction, Refining and by-Products Processing and Utilization, Tall Oil Rosin Production, Pine Chemicals, Pine-Derived Chemicals (Tall oil fatty acids (TOFA), Tall oil rosin (TOR), Sterols, Pitch)**

## **Description:**

Tall oil, also known as 'tallol' or 'liquid resin', has three major components: resin acids, fatty acids and unsaponifiables (also known as "neutral compounds"). Tall oil is a mixture of mainly acidic compounds found, like turpentine, in pine trees and obtained as a by-product of the pulp and paper industry. It is used as a resin in many different industries, including mining, paper manufacture, paint manufacture and synthetic rubber manufacture. Tall oil is one of the two commercially important by-products of the paper making process, the other being turpentine. It is produced by coniferous trees, and put to a wide variety of end uses. In the fuel crisis much research was done into the use of tall oil as an alternative fuel, and hormones were developed that made young trees produce 5 to 10 times their normal tall oil yield.

Tall oil, a by-product of kraft pulping of pine wood, is formed by acidifying black liquor soap skimmings. It consists of resin acids or rosin, fatty acids, and neutrals. Crude tall oil is an excellent source of rosin and tall oil fatty acid, an industrial-grade oleic and linoleic acid blend. The bulk of the neutrals, largely esters of fatty acids, sterols, resin and wax alcohols, and hydrocarbons, boil at either lower or higher temperatures than the boiling range of the fatty and resin acids.

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**Keywords:** Tall Oil Extraction, Tall Oil Refining, Tall Oil by-Products, Tall Oil Processing, Tall Oil Utilization, Tall Oil Rosin Production, Pine Chemicals, Pine-Derived Chemicals, Tall oil fatty acids (TOFA), Tall oil rosin (TOR), Sterols, Pitch, tallol, liquid resin, neutral compounds, adhesives, rubbers, inks, emulsifier, tall oil manufacturing,

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