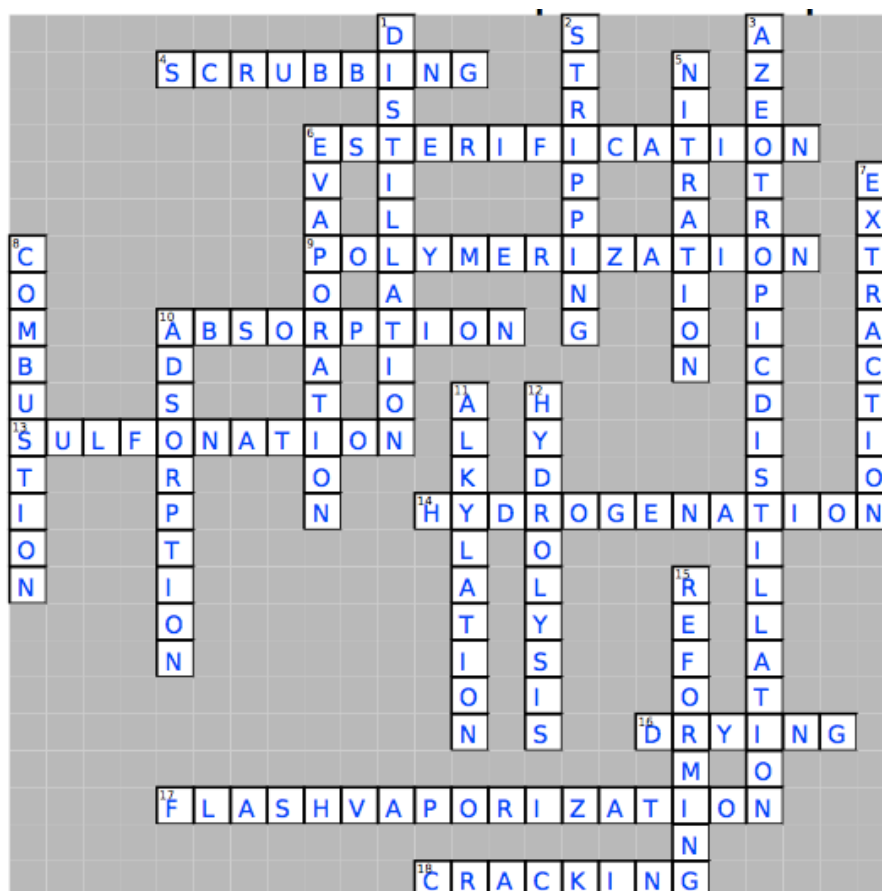


# CH0204 Organic Chemical Technology

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Puzzle is created to test the understanding of few of the unit operations and unit processes that are employed in industrial chemical production process



## Across

- 4 Separation of fine solids from gas phase by adding a liquid
- 6 Process of treating a carboxylic acid with an alcohol
- 9 Process of building up of polymeric compounds with desired properties
- 10 Transfer of solute from gas phase to liquid phase
- 13 An organic reaction in which a hydrogen atom on an aromatic compound is replaced by sulfonic acid functional group
- 14 A unit process that improves the resistance towards rancid oxidation of vegetable oils
- 16 Removal of relatively small amount of water from solids into a dry air or gas
- 17 A single-stage operation wherein a liquid mixture is partially vaporized, the vapor is allowed to come to contact with the residual liquid and the resulting vapor and liquid phases are separated
- 18 Thermal decomposition of alkenes by heat or catalytic action

## Down

- 1 Production of vapor by boiling the liquid mixture to be separated and condensing the vapor
- 2 Transfer of solute from liquid phase to gas phase
- 3 The separation of components from a liquid mixture that have nearly the same boiling points can be separated by adding a third component to alter the relative volatility of original components. This type of separation process by adding a third component is known as.
- 5 Introduction of nitro group into an organic chemical compound
- 6 Concentration of solute present in the solution
- 7 A term used for an operation in which a constituent of a solid or of a liquid is transferred to another liquid (Solvent)
- 8 Exothermic chemical reactions between a fuel (solid/liquid/gas) and an oxidant accompanied by the production of heat and conversion of chemical species
- 10 Transfer of a solute present in a liquid mixture on to the surface of a porous solid
- 11 Transfer of an alkyl group from one molecule to another
- 12 The cleavage of chemical bonds by the addition of water
- 15 A process whereby straight-run gasoline is cracked in order to raise the octane number