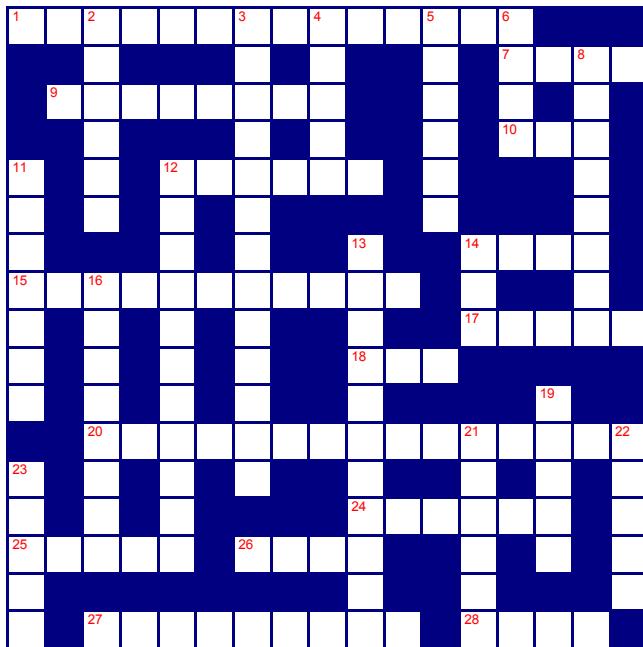


# Chemical\_technology17x17\_2006-12-10

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## Across

- 1 Resistance to fusion under high temperatures. (14)
- 7 Used as a coagulant in water treatment to remove colour, turbidity and bacteria. (4)
- 9 These are added in soaps to boost cleaning power. (8)
- 10 Flammable toxic derivative of toluene. (3)
- 12 A colourless liquid benzene derivative, existing in three isomers. Used as solvents, manufacture of resins. (6)
- 14 Name of the most recent and common method of manufacture of sulphuric acid. (4)
- 15 Distillates of petroleum (especially those used medicinally as a laxative or stool softener). (7,4)

17 A regulator that activates or deactivates a mechanism at set times. (5)

18 A mineral from which a metal can be extracted economically. (3)

20 Pure \_\_\_\_ contains about 95 percent alcohol. (9,6)

24 A building material made by grinding calcined limestone and clay to a fine powder (6)

25 Sulphur trioxide solution in sulphuric acid. (5)

26 The main product of high temperature carbonisation of coal. (4)

27 \_\_\_\_ analysis of coal determines the extent of moisture and volatile matter. (9)

28 A caustic substance ( $\text{Ca}(\text{OH})_2$ ) produced by heating limestone. (4)

## Down

- 2 Like down or as soft as down. (6)
- 3 PVC is a \_\_\_\_ material. (13)
- 4 Added during paper manufacture to impart resistance to penetration by liquids. (5)
- 5 Diastase, an \_\_\_\_ , converts starches in the grain into sugar maltose. (6)
- 6 A compound formed by replacing hydrogen in an acid by a metal. (4)
- 8 \_\_\_\_ analysis of coal determines carbon, hydrogen, nitrogen and sulphur contents. (8)
- 11 Aluminium oxide occurring naturally as corundum. (7)
- 12 The starting material for the manufacture of Nylon-6. (11)
- 13 \_\_\_\_ dyes are added in detergents to act as fabric brightener. (11)
- 14 The abbreviated name of a chlorinated hydrocarbon insecticide. (3)
- 16 A trade name of polychloroprene. (8)
- 19 A frame of iron bars to hold a fire. (5)
- 21 A chemical compound that has one or more hydroxyl groups attached to a benzene ring. (6)
- 22 Vertical column facilitating reactions and extractions at different stages. (5)
- 23 \_\_\_\_ dyes are mostly applied on cotton fabrics. (5)