



### Across

- ✓**4.** The streamline flow of a fluid flows without fluctuations or turbulence
- ✓**7.** A law that states that the vapour pressure of a solution is reduced in proportion to the amount of solute that is added. It is a German discovery
- ✓**9.** A part of a system that is chemically and physically uniform throughout
- ✓**10.** How many significant figures would the solution of the following problem have?  $[(5.74)(38.27)/0.001250]$
- ✓**16.** Creator of the Periodic table
- ✓**18.** Capable of igniting constantly in air
- ✓**22.** A mechanical device used to move air, gas or vapour at low gauge pressure
- ✓**23.** Pressure measuring device containing a thin metal tube flexes and moves a dial as the pressure measured being changes
- ✓**24.** Which temperature is defined as the product temperature when the fuel is burned completely in an adiabatic reactor?
- ✓**26.** Lumen/(m\*m) divided by 41 gives the Unit
- ✓**28.** The amount of energy required to change the temperature of unit mass or mole one

### Down

- ✓**1.** Partial Vaporization of a liquid of a given composition at a fixed temperature
- ✓**2.** The property of fluids to form distinct and separate phases under all relative proportions
- ✓**3.** A system in which one or more of the conditions of the system vary with time.
- ✓**5.** A process in which material is neither added to nor removed from the process during its operation
- ✓**6.** You will find when you travel back to ancient Rome to weigh medicines
- ✓**8.**  $-228.599 \text{ dB(K/W/Hz)}$  (Hint: proportionality factor){Drop one 'n'}
- ✓**11.** This is a quick but progressive combustion as distinguished from a detonation which is the instantaneous decomposition of combustible material
- ✓**12.** The father of chemical engineering
- ✓**13.**  $1.9858 \text{ BTU.lb/mol/(degree Reumer)}$
- ✓**14.** This scale is used to report specific gravity of petroleum compounds
- ✓**15.** Avogadro's number multiplied by 453.6 molecules gives
- ✓**17.** Physical phenomenon that occurs when gas or liquid molecules are brought into contact

degree

✓**30.** An economic activity by business that involves the manufacture of products through the conversion of raw materials, production of goods or supply of services

✓**31.** Check the Beck

✓**32.** An open system with material entering and/or leaving the system

✓**34.** First university to introduce a 4-year degree in chemical engineering

✓**36.** A complete or partial reduction in the reactivity of a substance such as enzyme or poisoning of a catalyst

✓**37.** The partial pressure of water vapour in a non-condensable gas divided by the vapour pressure of water at the temperature of gas

✓**38.** A relation that relates the partial pressure of one component in the vapor phase to the mole fraction of the same component in the liquid phase

✓**39.** Fathoms multiplied by even prime and smallest odd prime

✓**40.** A containment wall surrounding a storage tank or process vessel designed to contain its contents in the event of accidental leakage, spillage or a catastrophic failure

with a solid surface (Solid surface = Check the Beck)

✓**19.** The system in which no variation of conditions is possible without one phase disappearing

✓**20.** Brewing a cup of coffee is an example of which process

✓**21.** Location in a process where a stream of material is first introduced.]

✓**25.** A documented form of evidence that a process is capable of producing a product to a specified standard or quality. It is used for various manufacturing processes and, in particular, the production of pharmaceutical products

✓**27.** Cord multiplied by the even prime seven times

✓**29.** An instrument used to measure the speed of a gas such as air. It comprises of cups or vanes that rotate freely and are linked to tachometer

✓**31.** The point for which the dew point curve and bubble point curve coincide in a phase diagram

✓**33.** This unit is the same as 1000 litres

✓**35.** This person taught the first chemical engineering course and introduced the first four-year undergraduate chemical engineering program.