

### Answer on Question #50428, Chemistry, Other

**Task:**

1. Why do we convert temperatures to kelvin when doing the gas law calculation?
2. Why do we designate standard conditions for temperature and pressure?

**Answer:**

1) We convert temperatures to Kelvin, because gas law calculations are standardized to this unit.

Kelvin = Celsius + 273.15

2) Standard temperature and pressure (STP) refer to the nominal conditions in the atmosphere at sea level. We designate STP for characteristics of different materials because they can differ under other temperature and pressure conditions (for example, density and solubility differ under different temperature conditions).

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