Answer on Question 83507 in General Chemistry

V (1) =3.35 L

.t (1) = 13.40^o C=286.40 K

.p (1) =1.40 atm

.t (2) = 23.80^o C=296.80 K

. p (2) =0.994 atm

V (2) =?

According combined gas law

$$\frac{p(1) \times V(1)}{T(1)} = \frac{p(2) \times V(2)}{T(2)}$$

From which V (2) = $\frac{p(1) \times V(1) \times T(2)}{p(2) \times T(1)} = \frac{1.40 \times 3.35 \times 296.80}{0.994 \times 286.40}$ =4.89 L

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