Frequently Asked Question for Method 2

## Is there an error in the latest version of Equation 2-7 for calculating stack gas velocity?

There is an error in a term in Equation 2-7. The square root of the average  $\Delta p$  currently listed in the CFR should be the average of the square roots of the individual  $\Delta p's$  as correctly listed below:

12.6 Average Stack Gas Velocity.

$$V_s = K_p C_p \left( \frac{1}{n} \sum_{t=1}^n \sqrt{\Delta p_t} \right) \sqrt{\frac{T_{s(abavg)}}{P_s M_s}} \quad Eq. 2 - 7$$

Where:

$$K_{p} = 34.97 \frac{m}{\text{sec}} \left[ \frac{(g/g - mole)(mm \ Hg)}{(^{o}K)(mm \ H_{2}O)} \right]^{1/2} \qquad Metric$$

$$= 85.49 \frac{ft}{\text{sec}} \left[ \frac{(lb/lb - mole)(in. \ Hg)}{(^{o}R)(in. \ H_{2}O)} \right]^{1/2} \qquad English$$