Answer to Question #61117, Chemistry / Physical Chemistry

What is the dimensional formula and SI units for pressure?

Answer:

$$Pressure = \frac{Force}{Area} = \frac{Mass \times Acceleration}{Lenght \times Lenght} = \frac{Mass \times Velocity}{Lenght \times Lenght \times Time}$$

$$= \frac{Mass \times Lenght}{Lenght \times Lenght \times Time \times Time} = \frac{Mass}{Lenght \times Time \times Time} = \frac{M}{LT^2}$$

SI units for pressure is Pascal (Pa).