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defined by the following equation:  $\nabla \cdot \mathbf{u} = \frac{1}{\rho} \nabla \cdot \mathbf{F}$  Evaluating the various terms in this equation for the Cartesian coordinates  $(x, y, z)$  and the Cartesian velocity components  $(u, v, w)$ , yields the following value for  $\nabla \cdot \mathbf{u}$ :  $\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z}$  For a monotonic gas, the Stokes relation requires that  $\mu = \frac{2}{3} \lambda$ .

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