Property		Definition
Isochoric heat capacity c_v	$=$	$T\left(\dfrac{\partial s}{\partial T}\right)_v = \left(\dfrac{\partial u}{\partial T}\right)_v$
Isothermal compressibility κ	$=$	$-\dfrac{1}{v}\left(\dfrac{\partial v}{\partial p}\right)_T = \dfrac{1}{\varrho}\left(\dfrac{\partial \varrho}{\partial p}\right)_T$
Isothermal throttling coeff. δ_T	$=$	$\left(\dfrac{\partial h}{\partial p}\right)_T$
Volume expansivity β	$=$	$\dfrac{1}{v}\left(\dfrac{\partial v}{\partial T}\right)_p = -\dfrac{1}{\varrho}\left(\dfrac{\partial \varrho}{\partial T}\right)_p$
Isobaric heat capacity c_p	$=$	$T\left(\dfrac{\partial s}{\partial T}\right)_p = \left(\dfrac{\partial h}{\partial T}\right)_p$
Speed of sound w	$=$	$\sqrt{\left(\dfrac{\partial p}{\partial \varrho}\right)_s}$
Joule-Thomson coefficient μ	$=$	$\left(\dfrac{\partial T}{\partial p}\right)_h$