Property	Formulation	
$\left(\frac{\partial p}{\partial \varrho}\right)_T$	=	$TR\left[1+2\delta\alpha_{\delta}^{\mathrm{r}}+\delta^{2}\alpha_{\delta\delta}^{\mathrm{r}}\right]$
$\left(\frac{\partial p}{\partial T}\right)_{\varrho}$	=	$\varrho R \left[ 1 + \delta \alpha_{\delta}^{\rm r} - \tau \delta \alpha_{\tau \delta}^{\rm r} \right]$
$\left(\frac{\partial s}{\partial \varrho}\right)_T$	=	$\frac{R}{\varrho} \left[ -(1 + \delta \alpha_{\delta}^{\rm r} - \tau \delta \alpha_{\tau \delta}^{\rm r}) \right]$
$\left(\frac{\partial s}{\partial T}\right)_{\varrho}$	=	$\frac{R}{T} \left[ -\tau^2 (\alpha_{\tau\tau}^0 + \alpha_{\tau\tau}^{\rm r}) \right]$
$\left(\frac{\partial u}{\partial \varrho}\right)_T$	=	$rac{TR}{arrho}\left[ au\deltalpha_{ au\delta}^{ m r} ight]$
$\left(\frac{\partial u}{\partial T}\right)_{\varrho}$	=	$R\left[-\tau^2(\alpha_{\tau\tau}^0 + \alpha_{\tau\tau}^{\rm r})\right]$
$\left(\frac{\partial h}{\partial \varrho}\right)_T$	=	$\frac{TR}{\varrho} \left[ \tau \delta \alpha_{\tau\delta}^{\rm r} + \delta \alpha_{\delta}^{\rm r} + \delta^2 \alpha_{\delta\delta}^{\rm r} \right]$
$\left(\frac{\partial h}{\partial T}\right)_{\varrho}$	=	$R\left[-\tau^{2}(\alpha_{\tau\tau}^{0} + \alpha_{\tau\tau}^{r}) + (1 + \delta\alpha_{\delta}^{r} - \tau\delta\alpha_{\tau\delta}^{r})\right]$
$\left(\frac{\partial g}{\partial \varrho}\right)_T$	=	$\frac{TR}{\varrho} \left[ 1 + 2\delta\alpha_{\delta}^{\mathrm{r}} + \delta^{2}\alpha_{\delta\delta}^{\mathrm{r}} \right]$
$\left(\frac{\partial g}{\partial T}\right)_{\varrho}$	=	$R\left[-\tau(\alpha_{\tau}^{0} + \alpha_{\tau}^{r}) + (\alpha^{0} + \alpha^{r}) + (1 + \delta\alpha_{\delta}^{r} - \tau\delta\alpha_{\tau\delta}^{r})\right]$