

MPG No. 5.3.14 2'/m [Type III, monoclinic] [T tensor]

* Rank 0 tensor. * Rank 1 tensor.

$$[T_x \quad 0 \quad T_z]$$

$$\begin{aligned} T_x &= T_{px}^{(1)} \\ T_z &= T_{pz}^{(1)} \end{aligned}$$

* Rank 2 tensor (s). * Rank 2 tensor (a). * Rank 3 tensor (s).

$$\begin{bmatrix} T_{xxx} & 0 & T_{xxz} \\ T_{yyx} & 0 & T_{yyz} \\ T_{zzx} & 0 & T_{zzz} \\ 0 & T_{yzy} & 0 \\ T_{zxx} & 0 & T_{zxz} \\ 0 & T_{xyy} & 0 \end{bmatrix}$$

$$\begin{aligned} T_{xxx} &= 2T_{fax}^{(1)} + T_{px}^{(1)} + 2T_{px}^{(2)} \\ T_{xxz} &= -2M_{dxy}^{(1)} - T_{faz}^{(1)} + T_{fbz}^{(1)} + T_{pz}^{(1)} \\ T_{yyx} &= -2M_{dyz}^{(1)} - T_{fax}^{(1)} + T_{fbx}^{(1)} + T_{px}^{(1)} \\ T_{yyz} &= 2M_{dxy}^{(1)} - T_{faz}^{(1)} - T_{fbz}^{(1)} + T_{pz}^{(1)} \\ T_{zzx} &= 2M_{dyz}^{(1)} - T_{fax}^{(1)} - T_{fbx}^{(1)} + T_{px}^{(1)} \\ T_{zzz} &= 2T_{faz}^{(1)} + T_{pz}^{(1)} + 2T_{pz}^{(2)} \\ T_{yzy} &= -M_{dxy}^{(1)} - T_{faz}^{(1)} - T_{fbz}^{(1)} + T_{pz}^{(2)} \\ T_{zxx} &= M_{dxy}^{(1)} - T_{faz}^{(1)} + T_{fbz}^{(1)} + T_{pz}^{(2)} \\ T_{zxz} &= -M_{dyz}^{(1)} - T_{fax}^{(1)} - T_{fbx}^{(1)} + T_{px}^{(2)} \\ T_{xyy} &= M_{dyz}^{(1)} - T_{fax}^{(1)} + T_{fbx}^{(1)} + T_{px}^{(2)} \end{aligned}$$

* Rank 3 tensor (a).

$$\begin{bmatrix} 0 & T_{yzy} & 0 \\ T_{zxx} & 0 & T_{zxz} \\ 0 & T_{xyy} & 0 \end{bmatrix}$$

$$\begin{aligned} T_{yzy} &= M_{dxy}^{(2)} + T_{pz}^{(3)} \\ T_{zxx} &= M_{dxy}^{(2)} - T_{pz}^{(3)} \\ T_{zxz} &= M_{dyz}^{(2)} + T_{px}^{(3)} \\ T_{xyy} &= M_{dyz}^{(2)} - T_{px}^{(3)} \end{aligned}$$

* Rank 4 tensor (sss). * Rank 4 tensor (ssa). * Rank 4 tensor (aas). * Rank 4 tensor (aaa). * Rank 4 tensor (sa). * Rank 4 tensor (as). * Rank 4 tensor (s). * Rank 4 tensor (a). * Rank 4 tensor (t).