MPG No. 5.5.16 $2'/m'$ [Type III, monoclinic] [G tensor]

* Rank 0 tensor. * Rank 1 tensor.

$$\begin{bmatrix} 0 & G_y & 0 \end{bmatrix}$$

$$G_y = G^{(1)}_{py}$$

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

$$\begin{bmatrix} 0 & G_{xxy} & 0 \\ 0 & G_{yyy} & 0 \\ 0 & G_{zzy} & 0 \\ G_{yzx} & 0 & G_{yzz} \\ 0 & G_{zxy} & 0 \\ G_{xyx} & 0 & G_{xyz} \end{bmatrix}$$

$$G_{xxy} = -G^{(1)}_{fay} - G^{(1)}_{fby} + G^{(1)}_{py} + 2Q^{(1)}_{dxz}$$
$$G_{yyy} = 2G^{(1)}_{fay} + G^{(1)}_{py} + 2G^{(2)}_{py}$$
$$G_{zzy} = -G^{(1)}_{fay} + G^{(1)}_{fby} + G^{(1)}_{py} - 2Q^{(1)}_{dxz}$$
$$G_{yzx} = G^{(1)}_{f3} - 3Q^{(1)}_{du} - Q^{(1)}_{dv}$$
$$G_{yzz} = -G^{(1)}_{fay} + G^{(1)}_{fby} + G^{(2)}_{py} + Q^{(1)}_{dxz}$$
$$G_{zxy} = G^{(1)}_{f3} + 3Q^{(1)}_{du} - Q^{(1)}_{dv}$$
$$G_{xyx} = -G^{(1)}_{fay} - G^{(1)}_{fby} + G^{(2)}_{py} - Q^{(1)}_{dxz}$$
$$G_{xyz} = G^{(1)}_{f3} + 2Q^{(1)}_{dv}$$

* Rank 3 tensor (a).

$$\begin{bmatrix} G_{yzx} & 0 & G_{yzz} \\ 0 & G_{zxy} & 0 \\ G_{xyx} & 0 & G_{xyz} \end{bmatrix}$$

$$G_{yzx} = -Q^{(2)}_{du} + Q^{(2)}_{dv} + Q^{(1)}_{s}$$
$$G_{yzz} = -G^{(3)}_{py} + Q^{(2)}_{dxz}$$
$$G_{zxy} = -Q^{(2)}_{du} - Q^{(2)}_{dv} + Q^{(1)}_{s}$$
$$G_{xyx} = G^{(3)}_{py} + Q^{(2)}_{dxz}$$
$$G_{xyz} = 2Q^{(2)}_{du} + Q^{(1)}_{s}$$

* 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).