

The group  $G$  is isomorphic to the group labelled by [ 24, 3 ] in the Small Groups library.

Ordinary character table of  $G \cong \text{SL}(2,3)$ :

	$1a$	$2a$	$4a$	$3a$	$6a$	$3b$	$6b$
$\chi_1$	1	1	1	1	1	1	1
$\chi_2$	1	1	1	$E(3)$	$E(3)$	$E(3)^2$	$E(3)^2$
$\chi_3$	1	1	1	$E(3)^2$	$E(3)^2$	$E(3)$	$E(3)$
$\chi_4$	3	3	-1	0	0	0	0
$\chi_5$	2	-2	0	-1	1	-1	1
$\chi_6$	2	-2	0	$-E(3)$	$E(3)$	$-E(3)^2$	$E(3)^2$
$\chi_7$	2	-2	0	$-E(3)^2$	$E(3)^2$	$-E(3)$	$E(3)$

Trivial source character table of  $G \cong \text{SL}(2,3)$  at  $p = 2$ :

Normalisers $N_i$	$N_1$			$N_2$			$N_3$	$N_4$		
$p$ -subgroups of $G$ up to conjugacy in $G$	$P_1$			$P_2$			$P_3$	$P_4$		
Representatives $n_j \in N_i$	$1a$	$3a$	$3b$	$1a$	$3a$	$3b$	$1a$	$1a$	$3a$	$3b$
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7$	8	2	2	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7$	8	$2 * E(3)$	$2 * E(3)^2$	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7$	8	$2 * E(3)^2$	$2 * E(3)$	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	4	1	1	4	1	1	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	4	$E(3)$	$E(3)^2$	4	$E(3)$	$E(3)^2$	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	4	$E(3)^2$	$E(3)$	4	$E(3)^2$	$E(3)$	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	6	0	0	6	0	0	2	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	1	1	$E(3)$	$E(3)^2$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7$	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	1	1	$E(3)^2$	$E(3)$

$$P_1 = \text{Group}([()]) \cong 1$$

$$P_2 = \text{Group}([(1, 5)(2, 9)(3, 11)(4, 12)(6, 15)(7, 17)(8, 18)(10, 19)(13, 21)(14, 22)(16, 23)(20, 24)]) \cong \text{C}2$$

$$P_3 = \text{Group}([(1, 5)(2, 9)(3, 11)(4, 12)(6, 15)(7, 17)(8, 18)(10, 19)(13, 21)(14, 22)(16, 23)(20, 24), (1, 11, 5, 3)(2, 17, 9, 7)(4, 10, 12, 19)(6, 21, 15, 13)(8, 16, 18, 23)(14, 20, 22, 24)]) \cong \text{C}4$$

$$P_4 = \text{Group}([(1, 5)(2, 9)(3, 11)(4, 12)(6, 15)(7, 17)(8, 18)(10, 19)(13, 21)(14, 22)(16, 23)(20, 24), (1, 11, 5, 3)(2, 17, 9, 7)(4, 10, 12, 19)(6, 21, 15, 13)(8, 16, 18, 23)(14, 20, 22, 24), (1, 19, 5, 10)(2, 23, 9, 16)(3, 4, 11, 12)(6, 24, 15, 20)(7, 8, 17, 18)(13, 14, 21, 22)]) \cong \text{Q}8$$

$$N_1 = \text{Group}([(1, 2, 6)(3, 8, 20)(4, 16, 13)(5, 9, 15)(7, 14, 10)(11, 18, 24)(12, 23, 21)(17, 22, 19), (1, 3, 5, 11)(2, 7, 9, 17)(4, 19, 12, 10)(6, 13, 15, 21)(8, 23, 18, 16)(14, 24, 22, 20), (1, 4, 5, 12)(2, 8, 9, 18)(3, 10, 11, 19)(6, 14, 15, 22)(7, 16, 17, 23)(13, 20, 21, 24), (1, 5)(2, 9)(3, 11)(4, 12)(6, 15)(7, 17)(8, 18)(10, 19)(13, 21)(14, 22)(16, 23)(20, 24)]) \cong \text{SL}(2,3)$$

$$N_2 = \text{Group}([(1, 2, 6)(3, 8, 20)(4, 16, 13)(5, 9, 15)(7, 14, 10)(11, 18, 24)(12, 23, 21)(17, 22, 19), (1, 3, 5, 11)(2, 7, 9, 17)(4, 19, 12, 10)(6, 13, 15, 21)(8, 23, 18, 16)(14, 24, 22, 20), (1, 4, 5, 12)(2, 8, 9, 18)(3, 10, 11, 19)(6, 14, 15, 22)(7, 16, 17, 23)(13, 20, 21, 24), (1, 5)(2, 9)(3, 11)(4, 12)(6, 15)(7, 17)(8, 18)(10, 19)(13, 21)(14, 22)(16, 23)(20, 24)]) \cong \text{SL}(2,3)$$

$$N_3 = \text{Group}([(1, 11, 5, 3)(2, 17, 9, 7)(4, 10, 12, 19)(6, 21, 15, 13)(8, 16, 18, 23)(14, 20, 22, 24), (1, 5)(2, 9)(3, 11)(4, 12)(6, 15)(7, 17)(8, 18)(10, 19)(13, 21)(14, 22)(16, 23)(20, 24), (1, 4, 5, 12)(2, 8, 9, 18)(3, 10, 11, 19)(6, 14, 15, 22)(7, 16, 17, 23)(13, 20, 21, 24)]) \cong \text{Q}8$$

$$N_4 = \text{Group}([(1, 19, 5, 10)(2, 23, 9, 16)(3, 4, 11, 12)(6, 24, 15, 20)(7, 8, 17, 18)(13, 14, 21, 22), (1, 11, 5, 3)(2, 17, 9, 7)(4, 10, 12, 19)(6, 21, 15, 13)(8, 16, 18, 23)(14, 20, 22, 24), (1, 5)(2, 9)(3, 11)(4, 12)(6, 15)(7, 17)(8, 18)(10, 19)(13, 21)(14, 22)(16, 23)(20, 24), (1, 2, 6)(3, 8, 20)(4, 16, 13)(5, 9, 15)(7, 14, 10)(11, 18, 24)(12, 23, 21)(17, 22, 19)]) \cong \text{SL}(2,3)$$