

The group G is isomorphic to the group labelled by ["could not identify G"] in the Small Groups library.

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

	1a	2a	3a	3b	4a	6a	8a	8b	13a	13b	13c	13d
χ_1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	12	4	3	0	0	1	0	0	-1	-1	-1	-1
χ_3	13	-3	4	1	1	0	-1	-1	0	0	0	0
χ_4	16	0	-2	1	0	0	0	0	$E(13)^4 + E(13)^{10} + E(13)^{12}$	$E(13)^7 + E(13)^8 + E(13)^{11}$	$E(13) + E(13)^3 + E(13)^9$	$E(13)^2 + E(13)^5 + E(13)^6$
χ_5	16	0	-2	1	0	0	0	0	$E(13)^7 + E(13)^8 + E(13)^{11}$	$E(13) + E(13)^3 + E(13)^9$	$E(13)^2 + E(13)^5 + E(13)^6$	$E(13)^4 + E(13)^{10} + E(13)^{12}$
χ_6	16	0	-2	1	0	0	0	0	$E(13)^2 + E(13)^5 + E(13)^6$	$E(13)^4 + E(13)^{10} + E(13)^{12}$	$E(13)^7 + E(13)^8 + E(13)^{11}$	$E(13) + E(13)^3 + E(13)^9$
χ_7	16	0	-2	1	0	0	0	0	$E(13) + E(13)^3 + E(13)^9$	$E(13)^2 + E(13)^5 + E(13)^6$	$E(13)^4 + E(13)^{10} + E(13)^{12}$	$E(13)^7 + E(13)^8 + E(13)^{11}$
χ_8	26	2	-1	-1	2	-1	0	0	0	0	0	0
χ_9	26	-2	-1	-1	0	1	$E(8) + E(8)^3$	$-E(8) - E(8)^3$	0	0	0	0
χ_{10}	26	-2	-1	-1	0	1	$-E(8) - E(8)^3$	$E(8) + E(8)^3$	0	0	0	0
χ_{11}	27	3	0	0	-1	0	-1	-1	1	1	1	1
χ_{12}	39	-1	3	0	-1	-1	1	1	0	0	0	0

Trivial source character table of $G \cong \text{PSL}(3,3)$ at $p = 13$

<i>Normalisers</i> N_i	N_1								N_2		
<i>p</i> - subgroups of G up to conjugacy in G	P_1								P_2		
<i>Representatives</i> $n_j \in N_i$	1a	2a	3a	3b	4a	6a	8a	8b	1a	3b	3b
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	13	5	4	1	1	2	1	1	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12}$	39	7	3	0	-1	1	-1	-1	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	13	-3	4	1	1	0	-1	-1	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12}$	91	3	-8	4	-1	0	-1	-1	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	26	2	-1	-1	2	-1	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	26	-2	-1	-1	0	1	$-E(8) - E(8)^3$	$E(8) + E(8)^3$	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	26	-2	-1	-1	0	1	$E(8) + E(8)^3$	$-E(8) - E(8)^3$	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12}$	39	-1	3	0	-1	-1	1	1	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	1	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12}$	27	3	0	0	-1	0	-1	-1	1	$E(3)^2$	$E(3)$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12}$	27	3	0	0	-1	0	-1	-1	1	$E(3)$	$E(3)^2$

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

$$P_2 = \text{Group}([(1, 2, 11, 7, 12, 4, 8, 3, 6, 5, 10, 13, 9)]) \cong \text{C13}$$

$$N_1 = \text{Group}([(2, 4)(3, 5)(6, 8)(10, 11), (1, 2, 3)(5, 6, 7)(8, 9, 10)(11, 12, 13)]) \cong \text{PSL}(3,3)$$

$$N_2 = \text{Group}([(1, 2, 11, 7, 12, 4, 8, 3, 6, 5, 10, 13, 9), (2, 7, 5)(3, 6, 13)(4, 11, 8)(9, 10, 12)]) \cong \text{C13} : \text{C3}$$