

The group G is isomorphic to the group labelled by [24, 7] in the Small Groups library.
 Ordinary character table of $G \cong \text{C2 x (C3 : C4)}$:

	1a	4a	2a	2b	3a	4b	4c	2c	6a	6b	4d	6c
χ_1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	-1	-1	1	1	1	-1	-1	-1	1	1	-1
χ_3	1	-1	1	1	1	-1	-1	1	1	1	-1	1
χ_4	1	1	-1	1	1	-1	1	-1	-1	1	-1	-1
χ_5	1	$-E(4)$	-1	-1	1	$E(4)$	$E(4)$	1	-1	-1	$-E(4)$	1
χ_6	1	$E(4)$	-1	-1	1	$-E(4)$	$-E(4)$	1	-1	-1	$E(4)$	1
χ_7	1	$-E(4)$	1	-1	1	$-E(4)$	$E(4)$	-1	1	-1	$E(4)$	-1
χ_8	1	$E(4)$	1	-1	1	$E(4)$	$-E(4)$	-1	1	-1	$-E(4)$	-1
χ_9	2	0	-2	-2	-1	0	0	2	1	1	0	-1
χ_{10}	2	0	-2	2	-1	0	0	-2	1	-1	0	1
χ_{11}	2	0	2	-2	-1	0	0	-2	-1	1	0	1
χ_{12}	2	0	2	2	-1	0	0	2	-1	-1	0	-1

Trivial source character table of $G \cong \text{C2 x (C3 : C4)}$ at $p = 2$:

Normalisers N_i	N_1		N_2		N_3		N_4		N_5		N_6	N_7	N_8
p -subgroups of G up to conjugacy in G	P_1		P_2		P_3		P_4		P_5		P_6	P_7	P_8
Representatives $n_j \in N_i$	1a	3a	1a	3a	1a	3a	1a	3a	1a	3a	1a	1a	1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	8	8	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12}$	8	-4	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	4	4	4	4	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12}$	4	-2	4	-2	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	4	4	0	0	4	4	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12}$	4	-2	0	0	4	-2	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	4	4	0	0	0	0	4	4	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12}$	4	-2	0	0	0	0	4	-2	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	2	2	2	2	2	2	2	2	2	2	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12}$	2	-1	2	-1	2	-1	2	-1	2	-1	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	2	2	2	2	0	0	0	0	0	0	2	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12}$	2	2	2	2	0	0	0	0	0	0	2	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	1	1

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

$$P_2 = \text{Group}([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24)]) \cong \text{C2}$$

$$P_3 = \text{Group}([(1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24)]) \cong \text{C2}$$

$$P_4 = \text{Group}([(1, 9)(2, 13)(3, 4)(5, 17)(6, 7)(8, 20)(10, 11)(12, 23)(14, 15)(16, 24)(18, 19)(21, 22)]) \cong \text{C2}$$

$$P_5 = \text{Group}([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24)]) \cong \text{C2 x C2}$$

$$P_6 = \text{Group}([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18)]) \cong \text{C4}$$

$$P_7 = \text{Group}([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 6, 4, 13)(2, 9, 7, 3)(5, 21, 11, 24)(8, 23, 15, 18)(10, 16, 17, 22)(12, 14, 19, 20)]) \cong \text{C4}$$

$$P_8 = \text{Group}([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24), (1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18)]) \cong \text{C4 x C2}$$

$$N_1 = \text{Group}([(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 5, 12)(2, 8, 16)(3, 10, 18)(4, 11, 19)(6, 14, 21)(7, 15, 22)(9, 17, 23)(13, 20, 24)]) \cong \text{C2 x (C3 : C4)}$$

$$N_2 = \text{Group}([(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 5, 12)(2, 8, 16)(3, 10, 18)(4, 11, 19)(6, 14, 21)(7, 15, 22)(9, 17, 23)(13, 20, 24)]) \cong \text{C2 x (C3 : C4)}$$

$$N_3 = \text{Group}([(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 5, 12)(2, 8, 16)(3, 10, 18)(4, 11, 19)(6, 14, 21)(7, 15, 22)(9, 17, 23)(13, 20, 24)]) \cong \text{C2 x (C3 : C4)}$$

$$N_4 = \text{Group}([(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 5, 12)(2, 8, 16)(3, 10, 18)(4, 11, 19)(6, 14, 21)(7, 15, 22)(9, 17, 23)(13, 20, 24)]) \cong \text{C2 x (C3 : C4)}$$

$$N_5 = \text{Group}([(1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18), (1, 5, 12)(2, 8, 16)(3, 10, 18)(4, 11, 19)(6, 14, 21)(7, 15, 22)(9, 17, 23)(13, 20, 24)]) \cong \text{C2 x (C3 : C4)}$$

$$N_6 = \text{Group}([(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24)]) \cong \text{C4 x C2}$$

$$N_7 = \text{Group}([(1, 6, 4, 13)(2, 9, 7, 3)(5, 21, 11, 24)(8, 23, 15, 18)(10, 16, 17, 22)(12, 14, 19, 20), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18)]) \cong \text{C4 x C2}$$

$$N_8 = \text{Group}([(1, 2, 4, 7)(3, 6, 9, 13)(5, 16, 11, 22)(8, 19, 15, 12)(10, 21, 17, 24)(14, 23, 20, 18), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24)]) \cong \text{C4 x C2}$$