

The group G is isomorphic to the group labelled by [24, 13] in the Small Groups library.

Ordinary character table of $G \cong C2 \times A4$:

	1a	2a	3a	2b	6a	2c	3b	6b
χ_1	1	1	1	1	1	1	1	1
χ_2	1	-1	1	1	-1	-1	1	-1
χ_3	1	-1	$E(3)^2$	1	$-E(3)^2$	-1	$E(3)$	$-E(3)$
χ_4	1	-1	$E(3)$	1	$-E(3)$	-1	$E(3)^2$	$-E(3)^2$
χ_5	1	1	$E(3)^2$	1	$E(3)^2$	1	$E(3)$	$E(3)$
χ_6	1	1	$E(3)$	1	$E(3)$	1	$E(3)^2$	$E(3)^2$
χ_7	3	-3	0	-1	0	1	0	0
χ_8	3	3	0	-1	0	-1	0	0

Trivial source character table of $G \cong C2 \times A4$ 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	3b	1a	3a	3b	1a	1a	1a	3a	3b	1a	1a	1a	3a	3b
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8$	8	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8$	8	$2 * E(3)^2$	$2 * E(3)$	0	0	0	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8$	8	$2 * E(3)$	$2 * E(3)^2$	0	0	0	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8$	4	1	1	4	1	1	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8$	4	$E(3)$	$E(3)^2$	4	$E(3)$	$E(3)^2$	0	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8$	4	$E(3)^2$	$E(3)$	4	$E(3)^2$	$E(3)$	0	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8$	12	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 2 \cdot \chi_7 + 1 \cdot \chi_8$	12	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	2	2	2	0	0	0	2	0	2	2	2	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	2	$2 * E(3)$	$2 * E(3)^2$	0	0	0	2	0	2	$2 * E(3)$	$2 * E(3)^2$	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	2	$2 * E(3)^2$	$2 * E(3)$	0	0	0	2	0	2	$2 * E(3)^2$	$2 * E(3)$	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8$	6	0	0	6	0	0	2	2	0	0	0	2	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8$	6	0	0	0	0	0	2	4	0	0	0	0	2	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	1	1	1	$E(3)$	$E(3)^2$	1	1	1	$E(3)$	$E(3)^2$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8$	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	1	1	1	$E(3)^2$	$E(3)$	1	1	1	$E(3)^2$	$E(3)$

$P_1 = Group([()]) \cong 1$

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

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

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

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

$P_6 = Group([(1, 2)(3, 6)(4, 7)(5, 8)(9, 13)(10, 14)(11, 15)(12, 16)(17, 20)(18, 21)(19, 22)(23, 24), (1, 12)(2, 16)(3, 19)(4, 5)(6, 22)(7, 8)(9, 23)(10, 11)(13, 24)(14, 15)(17, 18)(20, 21)]) \cong C2 \times C2$

$P_7 = Group([(1, 8)(2, 5)(3, 15)(4, 16)(6, 11)(7, 12)(9, 21)(10, 22)(13, 18)(14, 19)(17, 24)(20, 23), (1, 12)(2, 16)(3, 19)(4, 5)(6, 22)(7, 8)(9, 23)(10, 11)(13, 24)(14, 15)(17, 18)(20, 21)]) \cong C2 \times C2$

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

$N_1 = Group([(1, 2)(3, 6)(4, 7)(5, 8)(9, 13)(10, 14)(11, 15)(12, 16)(17, 20)(18, 21)(19, 22)(23, 24), (1, 3, 9)(2, 6, 13)(4, 11, 23)(5, 19, 17)(7, 15, 24)(8, 22, 20)(10, 18, 12)(14, 21, 16), (1, 4)(2, 7)(3, 10)(5, 12)(6, 14)(8, 16)(9, 17)(11, 19)(13, 20)(15, 22)(18, 23)(21, 24), (1, 5)(2, 8)(3, 11)(4, 12)(6, 15)(7, 16)(9, 18)(10, 19)(13, 21)(14, 22)(17, 23)(20, 24)]) \cong C2 \times A4$

$N_2 = Group([(1, 2)(3, 6)(4, 7)(5, 8)(9, 13)(10, 14)(11, 15)(12, 16)(17, 20)(18, 21)(19, 22)(23, 24), (1, 3, 9)(2, 6, 13)(4, 11, 23)(5, 19, 17)(7, 15, 24)(8, 22, 20)(10, 18, 12)(14, 21, 16), (1, 4)(2, 7)(3, 10)(5, 12)(6, 14)(8, 16)(9, 17)(11, 19)(13, 20)(15, 22)(18, 23)(21, 24), (1, 5)(2, 8)(3, 11)(4, 12)(6, 15)(7, 16)(9, 18)(10, 19)(13, 21)(14, 22)(17, 23)(20, 24)]) \cong C2 \times A4$

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

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

$N_5 = Group([(1, 12)(2, 16)(3, 19)(4, 5)(6, 22)(7, 8)(9, 23)(10, 11)(13, 24)(14, 15)(17, 18)(20, 21), (1, 5)(2, 8)(3, 11)(4, 12)(6, 15)(7, 16)(9, 18)(10, 19)(13, 21)(14, 22)(17, 23)(20, 24), (1, 2)(3, 6)(4, 7)(5, 8)(9, 13)(10, 14)(11, 15)(12, 16)(17, 20)(18, 21)(19, 22)(23, 24), (1, 3, 9)(2, 6, 13)(4, 11, 23)(5, 19, 17)(7, 15, 24)(8, 22, 20)(10, 18, 12)(14, 21, 16)]) \cong C2 \times A4$

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

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

$N_8 = Group([(1, 12)(2, 16)(3, 19)(4, 5)(6, 22)(7, 8)(9, 23)(10, 11)(13, 24)(14, 15)(17, 18)(20, 21), (1, 5)(2, 8)(3, 11)(4, 12)(6, 15)(7, 16)(9, 18)(10, 19)(13, 21)(14, 22)(17, 23)(20, 24), (1, 2)(3, 6)(4, 7)(5, 8)(9, 13)(10, 14)(11, 15)(12, 16)(17, 20)(18, 21)(19, 22)(23, 24), (1, 3, 9)(2, 6, 13)(4, 11, 23)(5, 19, 17)(7, 15, 24)(8, 22, 20)(10, 18, 12)(14, 21, 16)]) \cong C2 \times A4$