

The group G is isomorphic to the group labelled by [24, 6] in the Small Groups library.

Ordinary character table of $G \cong \text{D24}$:

	1a	12a	6a	4a	3a	12b	2a	2b	2c
χ_1	1	1	1	1	1	1	1	1	1
χ_2	1	1	1	1	1	1	1	-1	-1
χ_3	1	-1	1	-1	1	-1	1	1	-1
χ_4	1	-1	1	-1	1	-1	1	-1	1
χ_5	2	$-E(12)^7 + E(12)^{11}$	1	0	-1	$E(12)^7 - E(12)^{11}$	-2	0	0
χ_6	2	1	-1	-2	-1	1	2	0	0
χ_7	2	0	-2	0	2	0	-2	0	0
χ_8	2	-1	-1	2	-1	-1	2	0	0
χ_9	2	$E(12)^7 - E(12)^{11}$	1	0	-1	$-E(12)^7 + E(12)^{11}$	-2	0	0

Trivial source character table of $G \cong \text{D24}$ 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	1a	1a	3a	1a	1a	1a
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 2 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	8	8	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9$	8	-4	0	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	4	4	4	4	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$	4	-2	4	-2	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	4	4	0	0	2	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	4	4	0	0	0	2	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	2	2	2	2	0	0	2	2	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$	2	-1	2	-1	0	0	2	-1	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	2	2	2	2	2	0	0	0	2	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	2	2	2	2	0	2	0	0	0	2	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	1	1	1	1	1	1	1	1	1	1	1

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

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

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

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

$$P_5 = \text{Group}([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 20)(12, 18, 19, 23)(16, 21, 22, 24)]) \cong \text{C4}$$

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

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

$$P_8 = \text{Group}([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 20)(12, 18, 19, 23)(16, 21, 22, 24), (1, 2)(3, 13)(4, 7)(5, 16)(6, 9)(8, 12)(10, 24)(11, 22)(14, 23)(15, 19)(17, 21)(18, 20)]) \cong \text{D8}$$

$$N_1 = \text{Group}([(1, 2)(3, 13)(4, 7)(5, 16)(6, 9)(8, 12)(10, 24)(11, 22)(14, 23)(15, 19)(17, 21)(18, 20), (1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 20)(12, 18, 19, 23)(16, 21, 22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 5, 12)(2, 8, 16)(3, 10, 18)(4, 11, 19)(6, 14, 21)(7, 15, 22)(9, 17, 23)(13, 20, 24)]) \cong \text{D24}$$

$$N_2 = \text{Group}([(1, 2)(3, 13)(4, 7)(5, 16)(6, 9)(8, 12)(10, 24)(11, 22)(14, 23)(15, 19)(17, 21)(18, 20), (1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 20)(12, 18, 19, 23)(16, 21, 22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 5, 12)(2, 8, 16)(3, 10, 18)(4, 11, 19)(6, 14, 21)(7, 15, 22)(9, 17, 23)(13, 20, 24)]) \cong \text{D24}$$

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

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

$$N_5 = \text{Group}([(1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 20)(12, 18, 19, 23)(16, 21, 22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 2)(3, 13)(4, 7)(5, 16)(6, 9)(8, 12)(10, 24)(11, 22)(14, 23)(15, 19)(17, 21)(18, 20), (1, 5, 12)(2, 8, 16)(3, 10, 18)(4, 11, 19)(6, 14, 21)(7, 15, 22)(9, 17, 23)(13, 20, 24)]) \cong \text{D24}$$

$$N_6 = \text{Group}([(1, 2)(3, 13)(4, 7)(5, 16)(6, 9)(8, 12)(10, 24)(11, 22)(14, 23)(15, 19)(17, 21)(18, 20), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 20)(12, 18, 19, 23)(16, 21, 22, 24)]) \cong \text{D8}$$

$$N_7 = \text{Group}([(1, 13)(2, 9)(3, 7)(4, 6)(5, 24)(8, 23)(10, 22)(11, 21)(12, 20)(14, 19)(15, 18)(16, 17), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24), (1, 2)(3, 13)(4, 7)(5, 16)(6, 9)(8, 12)(10, 24)(11, 22)(14, 23)(15, 19)(17, 21)(18, 20)]) \cong \text{D8}$$

$$N_8 = \text{Group}([(1, 2)(3, 13)(4, 7)(5, 16)(6, 9)(8, 12)(10, 24)(11, 22)(14, 23)(15, 19)(17, 21)(18, 20), (1, 3, 4, 9)(2, 6, 7, 13)(5, 10, 11, 17)(8, 14, 15, 20)(12, 18, 19, 23)(16, 21, 22, 24), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 20)(16, 22)(18, 23)(21, 24)]) \cong \text{D8}$$