

The group G is isomorphic to the group labelled by [24, 10] in the Small Groups library.

Ordinary character table of $G \cong C3 \times D8$:

	1a	3a	3b	2a	6a	6b	4a	12a	12b	2b	6c	6d	2c	6e	6f
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$
χ_3	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$
χ_4	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
χ_5	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	-1	$-E(3)$	$-E(3)^2$	-1	$-E(3)$	$-E(3)^2$
χ_6	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	-1	$-E(3)^2$	$-E(3)$	-1	$-E(3)^2$	$-E(3)$
χ_7	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
χ_8	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	-1	$-E(3)$	$-E(3)^2$	1	$E(3)$	$E(3)^2$	-1	$-E(3)$	$-E(3)^2$
χ_9	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	-1	$-E(3)^2$	$-E(3)$	1	$E(3)^2$	$E(3)$	-1	$-E(3)^2$	$-E(3)$
χ_{10}	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
χ_{11}	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	-1	$-E(3)$	$-E(3)^2$	-1	$-E(3)$	$-E(3)^2$	1	$E(3)$	$E(3)^2$
χ_{12}	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	-1	$-E(3)^2$	$-E(3)$	-1	$-E(3)^2$	$-E(3)$	1	$E(3)^2$	$E(3)$
χ_{13}	2	2	2	-2	-2	-2	0	0	0	0	0	0	0	0	0
χ_{14}	2	$2 * E(3)$	$2 * E(3)^2$	-2	$-2 * E(3)$	$-2 * E(3)^2$	0	0	0	0	0	0	0	0	0
χ_{15}	2	$2 * E(3)^2$	$2 * E(3)$	-2	$-2 * E(3)^2$	$-2 * E(3)$	0	0	0	0	0	0	0	0	0

Trivial source character table of $G \cong C3 \times D8$ at $p = 3$:

Normalisers N_i	N_1					N_2				
p -subgroups of G up to conjugacy in G	P_1					P_2				
Representatives $n_j \in N_i$	1a	2c	2b	2a	4a	1a	2b	2a	4a	2c
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	3	3	3	3	3	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	3	-3	-3	3	3	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	3	-3	3	3	-3	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	3	3	-3	3	-3	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15}$	6	0	0	-6	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	1	-1	-1	1	1	1	-1	-1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	1	1	-1	1	-1	1	-1	1	-1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	1	-1	1	1	-1	1	1	-1	-1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15}$	2	0	0	-2	0	2	0	0	0	-2

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

$$P_2 = \text{Group}([(1, 4, 11)(2, 7, 15)(3, 9, 17)(5, 12, 19)(6, 13, 20)(8, 16, 22)(10, 18, 23)(14, 21, 24)]) \cong C3$$

$$N_1 = \text{Group}([(1, 2)(3, 14)(4, 7)(5, 8)(6, 10)(9, 21)(11, 15)(12, 16)(13, 18)(17, 24)(19, 22)(20, 23), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24), (1, 4, 11)(2, 7, 15)(3, 9, 17)(5, 12, 19)(6, 13, 20)(8, 16, 22)(10, 18, 23)(14, 21, 24), (1, 5)(2, 8)(3, 10)(4, 12)(6, 14)(7, 16)(9, 18)(11, 19)(13, 21)(15, 22)(17, 23)(20, 24)]) \cong C3 \times D8$$

$$N_2 = \text{Group}([(1, 4, 11)(2, 7, 15)(3, 9, 17)(5, 12, 19)(6, 13, 20)(8, 16, 22)(10, 18, 23)(14, 21, 24), (1, 2)(3, 14)(4, 7)(5, 8)(6, 10)(9, 21)(11, 15)(12, 16)(13, 18)(17, 24)(19, 22)(20, 23), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 20)(16, 21)(19, 23)(22, 24)]) \cong C3 \times D8$$