The group G is isomorphic to the group labelled by [24, 10] in the Small Groups library.
Ordinary character table of $G \cong$ C3 x 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 x D8 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 $n_j \in N_i$	$1a$	$3b$	$3a$	$1a$	$3b$	$3a$	$1a$	$3a$	$3b$	$1a$	$3a$	$3b$	$1a$	$3a$	$3b$	$1a$	$3a$	$3b$	$1a$	$3a$	$3b$	$1a$	$3a$	$3b$
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+2\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+2\cdot\chi_{14}+0\cdot\chi_{15}$	8	$8*E(3)^2$	$8*E(3)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+2\cdot\chi_{15}$	8	$8*E(3)$	$8*E(3)^2$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	4	$4*E(3)^2$	$4*E(3)$	4	$4*E(3)^2$	$4*E(3)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	4	$4*E(3)$	$4*E(3)^2$	4	$4*E(3)$	$4*E(3)^2$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+1\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	4	4	4	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+1\cdot\chi_{15}$	4	$4*E(3)$	$4*E(3)^2$	0	0	0	2	$2*E(3)$	$2*E(3)^2$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+1\cdot\chi_{14}+0\cdot\chi_{15}$	4	$4*E(3)^2$	$4*E(3)$	0	0	0	2	$2*E(3)^2$	$2*E(3)$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+1\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	4	4	4	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+1\cdot\chi_{14}+0\cdot\chi_{15}$	4	$4*E(3)^2$	$4*E(3)$	0	0	0	0	0	0	2	$2*E(3)^2$	$2*E(3)$	0	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+1\cdot\chi_{15}$	4	$4*E(3)$	$4*E(3)^2$	0	0	0	0	0	0	2	$2*E(3)$	$2*E(3)^2$	0	0	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	2	2	2	2	2	2	2	2	2	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+1\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	2	$2*E(3)$	$2*E(3)^2$	2	$2*E(3)$	$2*E(3)^2$	2	$2*E(3)$	$2*E(3)^2$	0	0	0	2	$2*E(3)$	$2*E(3)^2$	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	2	$2*E(3)^2$	$2*E(3)$	2	$2*E(3)^2$	$2*E(3)$	2	$2*E(3)^2$	$2*E(3)$	0	0	0	2	$2*E(3)^2$	$2*E(3)$	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+1\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	2	2	2	2	2	2	0	0	0	2	2	2	0	0	0	2	2	2	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+1\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	2	$2*E(3)$	$2*E(3)^2$	2	$2*E(3)$	$2*E(3)^2$	0	0	0	2	$2*E(3)$	$2*E(3)^2$	0	0	0	2	$2*E(3)$	$2*E(3)^2$	0	0	0	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+1\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	2	$2*E(3)^2$	$2*E(3)$	2	$2*E(3)^2$	$2*E(3)$	0	0	0	2	$2*E(3)^2$	$2*E(3)$	0	0	0	2	$2*E(3)^2$	$2*E(3)$	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	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	0	0	0	2	$2*E(3)$	$2*E(3)^2$	0	0	0
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	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	0	0	0	2	$2*E(3)^2$	$2*E(3)$	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	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	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$	1	$E(3)$	$E(3)^2$
$0\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9+0\cdot\chi_{10}+0\cdot\chi_{11}+0\cdot\chi_{12}+0\cdot\chi_{13}+0\cdot\chi_{14}+0\cdot\chi_{15}$	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	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$	1	$E(3)^2$	$E(3)$

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24)]) \cong$ C2
$P_3 = Group([(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,20)(16,21)(19,23)(22,24)]) \cong$ C2
$P_4 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23)]) \cong$ C2
$P_5 = Group([(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24),(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,20)(16,21)(19,23)(22,24)]) \cong$ C2 x C2
$P_6 = Group([(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24),(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23)]) \cong$ C2 x C2
$P_7 = Group([(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24),(1,14,5,6)(2,10,8,3)(4,21,12,13)(7,18,16,9)(11,24,19,20)(15,23,22,17)]) \cong$ C4
$P_8 = Group([(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24),(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,20)(16,21)(19,23)(22,24),(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23)]) \cong$ D8

$N_1 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23),(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,20)(16,21)(19,23)(22,24),(1,4,11)(2,7,15)(3,9,17)(5,12,19)(6,13,20)(8,16,22)(10,18,23)(14,21,24),(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24)]) \cong$ C3 x D8
$N_2 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23),(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,20)(16,21)(19,23)(22,24),(1,4,11)(2,7,15)(3,9,17)(5,12,19)(6,13,20)(8,16,22)(10,18,23)(14,21,24),(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24)]) \cong$ C3 x D8
$N_3 = Group([(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,20)(16,21)(19,23)(22,24),(1,4,11)(2,7,15)(3,9,17)(5,12,19)(6,13,20)(8,16,22)(10,18,23)(14,21,24),(1,19,4,5,11,12)(2,22,7,8,15,16)(3,23,9,10,17,18)(6,24,13,14,20,21)]) \cong$ C6 x C2
$N_4 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23),(1,4,11)(2,7,15)(3,9,17)(5,12,19)(6,13,20)(8,16,22)(10,18,23)(14,21,24),(1,8)(2,5)(3,6)(4,16)(7,12)(9,13)(10,14)(11,22)(15,19)(17,20)(18,21)(23,24)]) \cong$ C6 x C2
$N_5 = Group([(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,20)(16,21)(19,23)(22,24),(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24),(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23),(1,4,11)(2,7,15)(3,9,17)(5,12,19)(6,13,20)(8,16,22)(10,18,23)(14,21,24)]) \cong$ C3 x D8
$N_6 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23),(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24),(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,20)(16,21)(19,23)(22,24),(1,4,11)(2,7,15)(3,9,17)(5,12,19)(6,13,20)(8,16,22)(10,18,23)(14,21,24)]) \cong$ C3 x D8
$N_7 = Group([(1,14,5,6)(2,10,8,3)(4,21,12,13)(7,18,16,9)(11,24,19,20)(15,23,22,17),(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24),(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23),(1,4,11)(2,7,15)(3,9,17)(5,12,19)(6,13,20)(8,16,22)(10,18,23)(14,21,24)]) \cong$ C3 x D8
$N_8 = Group([(1,2)(3,14)(4,7)(5,8)(6,10)(9,21)(11,15)(12,16)(13,18)(17,24)(19,22)(20,23),(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,20)(16,21)(19,23)(22,24),(1,5)(2,8)(3,10)(4,12)(6,14)(7,16)(9,18)(11,19)(13,21)(15,22)(17,23)(20,24),(1,4,11)(2,7,15)(3,9,17)(5,12,19)(6,13,20)(8,16,22)(10,18,23)(14,21,24)]) \cong$ C3 x D8