The group G is isomorphic to the group labelled by [81, 8] in the Small Groups library

ial source character table of $G \cong (C9 \times C3)$ : C3 at $p = 3$ :								
rmalisers $N_i$	$N_1$	$N_2$	$N_3$	$N_4$	$N_5$	$N_6$	$N_7$	$N_{\varepsilon}$
ubgroups of $G$ up to conjugacy in $G$	$P_1$	$P_2$	$P_3$	$P_4$	$P_5$	$P_6$	$P_7$	$P_8$
presentatives $n_j \in N_i$	1a	1a	1a	1a	1 <i>a</i>	1a	1a	1a
$\chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 3 \cdot \chi_{10} + 3 \cdot \chi_{11} + 3 \cdot \chi_{12} + 3 \cdot \chi_{13} + 3 \cdot \chi_{14} + 3 \cdot \chi_{15} + 3 \cdot \chi_{16} + 3 \cdot \chi_{17}$	81	0	0	0	0	0	0	0
$\chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 3 \cdot \chi_{10} + 3 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	27	27	0	0	0	0	0	0
$\chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17}$	27	0	9	0	0	0	0	0
$\chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17}$	27	0	0	3	0	0	0	0
$\chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	9	9	9	0	9	0	0	0
$\chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 1 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 1 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	9	9	0	0	0	3	0	0
$\chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	9	9	0	3	0	0	3	0
$\chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	9	9	0	0	0	0	0	3
$\chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	9	9	0	0	0	0	0	0
$\chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	3	3	3	0	3	3	0	0
$\chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	3	3	3	3	3	0	3	0
$\chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	3	3	3	0	3	0	0	3
$\chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	3	3	3	0	3	0	0	0
$\chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	1	1	1	1	1	1	1	1

0 0 0 3 0 0 0  $P_2 = Group([(1,5,15)(2,9,24)(3,12,29)(4,14,31)(6,18,37)(7,21,42)(8,23,44)(10,26,47)(11,28,49)(13,30,50)(16,34,55)(17,36,57)(19,39,60)(20,41,62)(22,43,63)(25,46,65)(27,48,66)(32,52,69)(33,54,71)(35,56,72)(38,59,74)(40,61,75)(45,64,76)(51,68,78)(53,70,79)(58,73,80)(67,77,81)]) \cong C3$  $P_3 = Group([(1, 13, 4)(2, 22, 8)(3, 27, 11)(5, 30, 14)(6, 35, 17)(7, 40, 20)(9, 43, 23)(10, 45, 25)(12, 48, 28)(15, 50, 31)(16, 53, 33)(18, 56, 36)(19, 58, 38)(21, 61, 41)(24, 63, 44)(26, 64, 46)(29, 66, 49)(32, 67, 51)(34, 70, 54)(37, 72, 57)(39, 73, 59)(42, 75, 62)(47, 76, 65)(52, 77, 68)(55, 79, 71)(60, 80, 74)(69, 81, 78)]) \cong C3$  $P_{4} = Group([(1,2,6)(3,20,70)(4,23,57)(5,9,18)(7,33,48)(8,36,31)(10,58,78)(11,61,16)(12,41,79)(13,63,56)(14,44,17)(15,24,37)(19,67,65)(21,54,66)(22,72,30)(25,39,77)(26,73,51)(27,42,71)(28,75,34)(29,62,53)(32,45,74)(35,50,43)(38,52,64)(40,55,49)(46,60,81)(47,80,68)(59,69,76)]) \cong C3$  $P_5 = Group([(1,13,4)(2,22,8)(3,27,11)(5,30,14)(6,35,77,68)(55,79,71)(60,80,74)(15,25)(12,48,28)(15,50,31)(16,53,33)(18,56,72)(38,59,74)(40,61,75)(45,64,76)(22,43,63)(25,46,65)(27,48,66)(27,48,6$  $P_6 = Group([(1,3,10,5,12,26,15,29,47)(2,7,19,9,21,39,24,42,60)(4,11,25,14,28,46,31,49,65)(6,16,32,18,34,52,37,55,69)(8,20,38,23,41,59,44,62)(2,43,63)(2,48,63,43,52,37,55,69)(8,20,38,23,41,59,44,62)(2,43,63)(2,48,63,43,52,37,55,69)(8,20,38,23,41,59,44,62)(2,43,63)(2,48,6$ 

 $G_9 = Group([(1,70,39,15,53,19,5,79,60)(2,48,52,24,27,32,9,66,69)(3,78,44,29,68,23,12,51,8)(4,16,74,31,55,59,14,34,38)(6,61,26,37,40,10,18,75,47)(7,65,57,42,46,36,21,25,17)(11,77,22,49,67,63,28,81,43)(13,71,58,50,54,80,30,33,73)(20,64,35,62,45,72,41,76,56),(17,36,57)(19,39,60)(20,41,62)(22,43,63)(25,46,65)(27,48,66)(32,52,69)(33,54,71)(35,56,72)(38,59,74)(40,61,75)(45,64,76)(51,68,78)(45,64,76)(51,68,78)(45,64,76)(45,64,$ 

1  $E(3)^2$  E(3)

1 1 E(3)  $E(3)^2$ 

1 1  $E(3)^2$  E(3)

0 3\*E(3) 3 0 0

 $\begin{vmatrix} \chi_{15} \end{vmatrix} \ 3 \qquad 0 \qquad E(9)^2 - E(9)^5 \qquad 0 \qquad 3*E(3)^2 \qquad 0 \qquad 0 \qquad 2*E(9)^4 + E(9)^7 \quad -2*E(9)^2 - E(9)^5 \qquad 0 \qquad 3*E(3) \qquad 0 \qquad 0 \quad -E(9)^4 - 2*E(9)^7 \quad E(9)^2 + 2*E(9)^5 \qquad 0 \qquad -E(9)^4 + E(9)^7 \quad -E(9)^4 - E(9)^7 \quad -E(9)^7 \quad -E(9)^7$  $\begin{vmatrix} \chi_{16} \end{vmatrix} \ 3 \quad 0 \quad E(9)^2 + 2*E(9)^5 \quad 0 \quad 3*E(3)^2 \quad 0 \quad 0 \quad -E(9)^4 - 2*E(9)^7 \quad E(9)^2 - E(9)^5 \quad 0 \quad 3*E(3) \quad 0 \quad 0 \quad -E(9)^4 + E(9)^7 \quad -2*E(9)^2 - E(9)^5 \quad 0 \quad 2*E(9)^4 + E(9)^7$ 

1  $E(3)^2 E(3)^2$ 

 $|\chi_{10}| 3 0 0 3 * E(3)^2 3 0 0$ 

(3,5,7,7,2)(3,5,7,2)(3,5

1  $E(3)^2$  1 1 E(3)  $E(3)^2$ 

1 E(3) 1  $E(3)^2$ 

E(3)

 $P_7 = Grouv([(1,2,6)(3,20,70)(4,23,57)(5,9,18)(7,33,48)(8,36,31)(10,58,78)(11,61,62)(22,43,63)(25,46,65)(27,48,66)(22,72,30)(25,39,77)(26,73,51)(27,42,71)(28,75,34)(29,62,53)(32,45,74)(35,56,72)(48,65)(27,48,66)(22,72,30)(25,39,77)(26,73,51)(27,42,71)(28,75,34)(29,62,53)(32,45,74)(35,56,72)(38,59,74)(40,61,75)(45,64,76)(51,68,78)(51$  $P_8 = Group([(1,20,52,15,62,32,5,41,69)(2,33,26,24,71,10,9,54,47)(3,58,35,29,80,72,12,73,56)(4,61,51,31,40,78,14,75,68)(6,11,39,37,49,19,18,28,60)(7,67,13,42,81,50,21,77,30)(8,70,25,44,53,65,23,79,46)(16,45,22,55,76,63,34,64,43)(17,48,38,57,27,74,36,66,59), (1,5,15)(2,9,24)(3,12,29)(4,14,31)(6,18,37)(7,21,42)(8,23,44)(10,26,47)(11,28,49)(13,30,50)(16,34,55)(17,36,57)(19,39,60)(20,41,62)(22,43,63)(25,46,65)(27,48,66)(32,52,69)(33,54,71)(35,56,72)(38,59,74)(40,61,75)(45,64,76)(51,68,78)(53,70,79)(58,73,80)(67,77,81)] \cong C9$ 

0 3 0 0 0