The group G is isomorphic to the group labelled by [672, 1045] in the Small Groups library. Ordinary character table of $G \cong C2$. (PSL(3,2): C2) = SL(2,7). C2:

	1a	2a	3a	6a	7a	14a	4a	16a	16b	12a	12b	16c	16d	4b	8a	8b
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	1
χ_3	6	6	0	0	-1	-1	0	0	0	0	0	0	0	-2	2	2
χ_4	6	6	0	0	-1	-1	0	$E(8) - E(8)^3$	$E(8) - E(8)^3$	0	0	$-E(8) + E(8)^3$	$-E(8) + E(8)^3$	2	0	0
χ_5	6	6	0	0	-1	-1	0	$-E(8) + E(8)^3$	$-E(8) + E(8)^3$	0	0	$E(8) - E(8)^3$	$E(8) - E(8)^3$	2	0	0
χ_6	6	-6	0	0	-1	1	0	$E(16) - E(16)^7$	$-E(16) + E(16)^7$	0	0	$-E(16)^3 + E(16)^5$	$E(16)^3 - E(16)^5$	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$
χ_7	6	-6	0	0	-1	1	0	$E(16)^3 - E(16)^5$	$-E(16)^3 + E(16)^5$	0	0	$E(16) - E(16)^7$	$-E(16) + E(16)^7$	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$
χ_8	6	-6	0	0	-1	1	0	$-E(16) + E(16)^7$	$E(16) - E(16)^7$	0	0	$E(16)^3 - E(16)^5$	$-E(16)^3 + E(16)^5$	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$
χ_9	6	-6	0	0	-1	1	0	$-E(16)^3 + E(16)^5$	$E(16)^3 - E(16)^5$	0	0	$-E(16) + E(16)^7$	$E(16) - E(16)^7$	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$
χ_{10}	7	7	1	1	0	0	-1	1	1	-1	-1	1	1	-1	-1	-1
χ_{11}	7	7	1	1	0	0	1	-1	-1	1	1	-1	-1	-1	-1	-1
χ_{12}	8	-8	2	-2	1	-1	0	0	0	0	0	0	0	0	0	0
χ_{13}	8	8	-1	-1	1	1	-2	0	0	1	1	0	0	0	0	0
χ_{14}	8	8	-1	-1	1	1	2	0	0	-1	-1	0	0	0	0	0
χ_{15}	8	-8	-1	1	1	-1	0	0	0	$-E(12)^7 + E(12)^{11}$	$E(12)^7 - E(12)^{11}$	0	0	0	0	0
χ_{16}	8	-8	-1	1	1	-1	0	0	0	$E(12)^7 - E(12)^{11}$	$-E(12)^7 + E(12)^{11}$	0	0	0	0	0

Trivial source character table of $G \cong C2$. (PSL(3,2): C2) = SL(2,7). C2 at p=3:

						N_1							2	
						P_1						F	2	
1a $2a$	a = 7a	14a 4	4a	16a	16b	16c	16d	4b	8a	8b	1a	4a 4	$\frac{1}{2a}$	4c
6 6	-1	-1		` ' ' ' -	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	$-E(8) + E(8)^3$	2	0	0	0	0 0	0	0
6 6	-1	-1	0 -	$-E(8) + E(8)^3$	$-E(8) + E(8)^3$	$E(8) - E(8)^3$	$E(8) - E(8)^3$	2	0	0	0	0 0	0	0
15 15	5 1	1 -	-3	1	1	1	1	-1	-1	-1	0	0 0	0	0
15 15	5 1	1	3	-1	-1	-1	-1	-1	-1	-1	0	0 0	0	0
6 6	-1	-1	0	0	0	0	0	-2	2	2	0	0 0	, 0	0
9 9	2	2 -	-3	-1	-1	-1	-1	1	1	1	0	0 0	0	0
9 9	2	2	3	1	1	1	1	1	1	1	0	0 0	, 0	0
6 -0	6 - 1	1	0 E	$E(16)^3 - E(16)^5$	$-E(16)^3 + E(16)^5$	$E(16) - E(16)^7$	$-E(16) + E(16)^7$	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$	0	0 0	, 0	0
6 -0	6 - 1	1	0 -	$-E(16) + E(16)^7$	$E(16) - E(16)^7$	$E(16)^3 - E(16)^5$	$-E(16)^3 + E(16)^5$	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	0	0 0	, 0	0
6 -0	6 - 1	1	0 - I	$E(16) - E(16)^7$	$-E(16) + E(16)^7$	$-E(16)^3 + E(16)^5$	$E(16)^3 - E(16)^5$	0	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	0	0 0	, 0	0
6 -	6 - 1	1	0 - 1	$E(16)^3 + E(16)^5$	$E(16)^3 - E(16)^5$	$-E(16) + E(16)^7$	$E(16) - E(16)^7$	0	$-E(8) + E(8)^3$	$E(8) - E(8)^3$	0	0 0	, 0	0
24 -2	24 3	-3	0	0	0	0	0	0	0	0	0	0 0	, 0	0
7 7	0	0 -	-1	1	1	1	1	-1	-1	-1	1	1 –	1 1	$\overline{-1}$
7 7	0	0	1	-1	-1	-1	-1	-1	-1	-1	1	-1 1	. 1	-1
1 1	1	1	1	1	1	1	1	1	1	1	1	1 1	. 1	1
1 1	1	1 -	-1	-1	-1	-1	-1	1	1	1	1	-1 -	1 1	1
	8 1	-1	0	0	0	0	0	0	0	0	2	0 0	-2	0
	6 6 6 6 15 15 15 15 15 6 6 6 9 9 9 6 6 6 24 27 7 7 7 1 1 1 1 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

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

 $P_2 = Group([(1,31,10)(2,21,8)(3,22,6)(4,32,9)(5,24,28)(7,23,27)(11,13,16)(12,15,14)]) \cong C3$

 $N_1 = Group([(1,2,4,3)(5,9,7,10)(6,11,8,12)(13,21,15,22)(14,23,16,24)(17,25,19,26)(18,27,20,28)(29,31,30,32), (2,5,6)(3,7,8)(9,13,14)(10,15,16)(11,17,18)(12,19,20)(21,26,29)(22,25,30)]) \cong C2 \cdot (PSL(3,2) : C2) = SL(2,7) \cdot C2 \\ N_2 = Group([(1,31,10)(2,21,8)(3,22,6)(4,32,9)(5,24,28)(7,23,27)(11,13,16)(12,15,14), (1,2,9,6,31,21,4,3,10,8,32,22)(5,15,27,11,24,14,7,13,28,12,23,16)(17,25,19,26)(18,29,20,30), (1,5,4,7)(2,16,3,14)(6,12,8,11)(9,23,10,24)(13,22,15,21)(17,30,19,29)(18,25,20,26)(27,31,28,32)]) \cong C3 : Q8$