The group G is isomorphic to the group labelled by [504, 156] in the Small Groups library. Ordinary character table of  $G \cong PSL(2,8)$ :

	1a	2a	3a	7a	7b	7c	9a	9b	9c		
$\chi_1$	1	1	1	1	1	1	1	1	1		
$\chi_2$	7	-1	-2	0	0	0	1	1	1		
$\chi_3$	7	-1	1	0	0	0	$E(9)^2 + E(9)^4 + E(9)^5 + E(9)^7$	$-E(9)^2 - E(9)^7$	$-E(9)^4 - E(9)^5$		
$\chi_4$	7	-1	1	0	0	0	$-E(9)^4 - E(9)^5$	$E(9)^2 + E(9)^4 + E(9)^5 + E(9)^7$	$-E(9)^2 - E(9)^7$		
$\chi_5$	7	-1	1	0	0	0	$-E(9)^2 - E(9)^7$	$-E(9)^4 - E(9)^5$	$E(9)^2 + E(9)^4 + E(9)^5 + E(9)^7$		
$\chi_6$	8	0	-1	1	1	1	-1	-1	-1		
$\chi_7$	9	1	0	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	0	0	0		
$\chi_8$	9	1	0	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	$E(7)^2 + E(7)^5$	0	0	0		
$\chi_9$	9	1	0	$E(7)^2 + E(7)^5$	$E(7)^3 + E(7)^4$	$E(7) + E(7)^6$	0	0	0		

Trivial source character table of  $G \cong PSL(2.8)$  at n=2:

Trivial source character table of $G = \operatorname{FSL}(2,8)$ at $p = 2$ .													
Normalisers $N_i$					$N_1$			$N_2 \mid N_3$			$N_4$	:	
p-subgroups of $G$ up to conjugacy in $G$					$P_1$			$P_2 \mid P_3$			$P_4$		
Representatives $n_j \in N_i$	1a $7a$	7c	7 <i>b</i>	3a	9a	9c	9b	1a 1a	1a	$7a$ $7\epsilon$	= $7f$	7b	7e $7d$
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9$		0	0	2	2	2	2	0 0	0	0 0	0	0	0 0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9$					$-E(9)^2 - E(9)^3 - E(9)^6 - E(9)^7$	$E(9)^2 - E(9)^3 + E(9)^4 + E(9)^5 - E(9)^6 + E(9)^7$	$-E(9)^3 - E(9)^4 - E(9)^5 - E(9)^6$	$\begin{vmatrix} 0 & 0 \end{vmatrix}$	0	0 0	0	0	0 0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$	32 $E(7) + E(7)^3 + E(7)^4 + E(7)^6$	$E(7)^2 + E(7)^3 + E(7)^4 + E(7)^5$			$-E(9)^3 - E(9)^4 - E(9)^5 - E(9)^6$	$-E(9)^2 - E(9)^3 - E(9)^6 - E(9)^7$	$E(9)^2 - E(9)^3 + E(9)^4 + E(9)^5 - E(9)^6 + E(9)^7$	$\begin{vmatrix} 0 & 0 \end{vmatrix}$	0	0 0	0	0	0 0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9$	32 $E(7) + E(7)^2 + E(7)^5 + E(7)^6$	$E(7) + E(7)^3 + E(7)^4 + E(7)^6$	$E(7)^2 + E(7)^3 + E(7)^4 + E(7)^4$	$)^{5}$ $-1$ $E($	$E(9)^2 - E(9)^3 + E(9)^4 + E(9)^5 - E(9)^6 + E(9)^7$	$-E(9)^3 - E(9)^4 - E(9)^5 - E(9)^6$	$-E(9)^2 - E(9)^3 - E(9)^6 - E(9)^7$	$\begin{vmatrix} 0 & 0 \end{vmatrix}$	0	0 0	0	0	0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9$	$16   E(7)^2 + E(7)^5$	$E(7) + E(7)^6$	$E(7)^3 + E(7)^4$	1	$E(9)^2 + E(9)^4 + E(9)^5 + E(9)^7$	$-E(9)^4 - E(9)^5$	$-E(9)^2 - E(9)^7$	$\begin{vmatrix} 0 & 0 \end{vmatrix}$	0	0 0	0	0	0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	16 $E(7) + E(7)^6$	$E(7)^3 + E(7)^4$	$E(7)^2 + E(7)^5$	1	$-E(9)^4 - E(9)^5$	$-E(9)^2 - E(9)^7$	$E(9)^2 + E(9)^4 + E(9)^5 + E(9)^7$	$\begin{vmatrix} 0 & 0 \end{vmatrix}$	0	0 0	0	0	0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$	$E(7)^3 + E(7)^4$	$E(7)^2 + E(7)^5$	$E(7) + E(7)^6$	1	$-E(9)^2 - E(9)^7$	$E(9)^2 + E(9)^4 + E(9)^5 + E(9)^7$	$-E(9)^4 - E(9)^5$	$\begin{vmatrix} 0 & 0 \end{vmatrix}$	0	0 0	0	0	0 0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	8 1	1	1	-1	-1	-1	-1	$\begin{vmatrix} 0 & 0 \end{vmatrix}$	0	0 0	0	0	0 0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9$	28 0	0	0	1	1	1	1	4 0	0	0 0	0	0	0 0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 2 \cdot \chi_7 + 2 \cdot \chi_8 + 2 \cdot \chi_9$	62   -1	-1	-1	-1	2	2	2	6 2	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	1	1	1	1	1	1 1	1	1 1	1	1	1 1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$	9 $E(7)^3 + E(7)^4$	$E(7)^2 + E(7)^5$	$E(7) + E(7)^6$	0	0	0	0	1 1		$E(7)^4$ $E(7)^4$			$E(7)^6  E(7)^3$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$	9 $E(7) + E(7)^6$	$E(7)^3 + E(7)^4$	$E(7)^2 + E(7)^5$	0	0	0	0	1 1					$E(7)^5$ $E(7)^6$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9$		$E(7) + E(7)^6$	$E(7)^3 + E(7)^4$	0	0	0	0	1 1	1	$E(7)^2$ $E(7)$			$E(7)^3$ $E(7)^5$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$		$E(7)^3 + E(7)^4$	$E(7)^2 + E(7)^5$	0	0	0	0	1 1		$E(7)^6$ $E(7)$	$)^5 E(7)^4$	$E(7)^3$	$E(7)^2$ $E(7)$
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$		$E(7)^2 + E(7)^5$	$E(7) + E(7)^6$	0	0	0	0	1 1	1	$E(7)^3$ $E(7)$	$)^6 E(7)^2$	$E(7)^{5}$	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9$	9 $E(7)^2 + E(7)^5$	$E(7) + E(7)^6$	$E(7)^3 + E(7)^4$	0	0	0	0	1 1	1 1	$E(7)^5$ $E(7)$	$E(7)^3$	$E(7)^{6}$	$E(7)^4$ $E(7)^2$

```
P_1 = Group([()]) \cong 1
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 $P_2 = Group([(2,7)(3,5)(4,6)(8,9)]) \cong C2$ 

 $P_3 = Group([(2,3)(4,8)(5,7)(6,9),(2,9)(3,6)(4,5)(7,8)]) \cong C2 \times C2$ 

 $P_4 = Group([(2,7)(3,5)(4,6)(8,9),(2,3)(4,8)(5,7)(6,9),(2,9)(3,6)(4,5)(7,8)]) \cong C2 \times C2 \times C2$ 

 $<sup>\</sup>begin{split} N_1 &= Group([(1,2)(3,4)(6,7)(8,9),(1,3,2)(4,5,6)(7,8,9)]) \cong PSL(2,8) \\ N_2 &= Group([(2,7)(3,5)(4,6)(8,9),(2,3)(4,8)(5,7)(6,9),(2,4)(3,8)(5,9)(6,7)]) \cong C2 \times C2 \times C2 \\ N_3 &= Group([(2,9)(3,6)(4,5)(7,8),(2,3)(4,8)(5,7)(6,9),(2,4)(3,8)(5,9)(6,7)]) \cong C2 \times C2 \times C2 \\ N_4 &= Group([(2,9)(3,6)(4,5)(7,8),(2,3)(4,8)(5,7)(6,9),(2,7)(3,5)(4,6)(8,9),(3,4,6,9,5,8,7)]) \cong (C2 \times C2 \times C2) : C7 \end{split}$