$\boxed{0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \mid 20 \quad 20 \quad 4 \quad -20 \quad -4 \quad 0 \quad 0}$

	1a	2a	2b	3a	4a	4b	4c	:	4d	5a $6a$	a	8a	8b	8c	10a	12a	12	b	16a	16b	16c	16d	20a	20b
χ_1	1	1	1	1	1	1	1		1	1 1	L	1	1	1	1	1	1		1	1	1	1	1	1
χ_2	1	1	1	1	1	1	-1	L	-1	1 1	L	1	1	1	1	1	1		-1	-1	-1	-1	1	1
χ_3	1	1	-1	1	-1	1	-E((4)	E(4)	1 1	L	-1	-1	1	1	-1	-1	L	E(4)	-E(4)	E(4)	-E(4)	-1	-1
χ_4	1	1	-1	1	-1	1	E(4	1) -	-E(4)	1 1	L	-1	-1	1	1	-1	-1	L	-E(4)	E(4)	-E(4)	E(4)	-1	-1
χ_5	8	-8	0	-1	0	0	0		0	-2 1	L	0	0	0	2	3 * E(4)	-3 * 1	E(4)	0	0	0	0	0	0
χ_6	8	-8	0	-1	0	0	0		0	-2 1	L	0	0	0	2	-3*E(4)	3*E	(4)	0	0	0	0	0	0
χ_7	9	9	1	0	9	1	-1	l	-1	-1 0)	1	1	1	-1	0	0		1	1	1	1	-1	-1
χ_8	9	9	1	0	9	1	1		1	-1 0)	1	1	1	-1	0	0		-1	-1	-1	-1	-1	-1
χ_9	9	9	-1	0	-9	1	-E((4)	E(4)	-1 0)	-1	-1	1	-1	0	0		-E(4)	E(4)	-E(4)	E(4)	1	1
χ_{10}	9	9	-1	0	-9	1	E(4	1) –	-E(4)	-1 0)	-1	-1	1	-1	0	0		E(4)	-E(4)	E(4)	-E(4)	1	1
	1	10	2	1	10	2	0		0	0 1	L	-2	-2	-2	0	1	1		0	0	0	0	0	0
χ_{12}	10	10	-2	1	-10	2	0		0	0 1	L	2	2	-2	0	-1	- 1	=	0	0	0	0	0	0
	10		-2	1	10	-2	0		0	0 1	L	0	0	0	0	1	1				$E(8) + E(8)^3$		0	0
	10		2	1	-10	-2	0		0	0 1	L	0	0	0	0	-1	-1				$-E(8) + E(8)^3$		0	0
	10		-2	1	10	-2	0		0	0 1	L	0	0	0	0	1	1				$-E(8) - E(8)^3$		0	0
	10		2	1	-10	-2	0		0	0 1	L	0	0	0	0	-1	-1	-E($(8) + E(8)^3$	$E(8) - E(8)^3$	$E(8) - E(8)^3$	$-E(8) + E(8)^3$	0	0
	16			-2	16	0	0		0	1 –	$\cdot 2$	0	0	0	1	-2	-2	2	0	0	0	0	1	1
	16			-2	-16	0	0		0	1 –	$\cdot 2$	0	0	0	1	2	2		0	0	0	0	-1	-1
	16			-2	0	0	0		0	1 2	2	0	0	0	-1	0	0		0	0	0	0	$E(20) + E(20)^{}9 - E(20)^{}13 - E(20)^{}17$	$-E(20) - E(20)^{} 9 + E(20)^{} 13 + E(20)^{}$
	16		0	-2	0	0	0		0	1 2	2	0	0	0	-1	0	0		0	0	0	0	$-E(20) - E(20)^9 + E(20)^13 + E(20)^17$	$E(20) + E(20)^{} 9 - E(20)^{} 13 - E(20)^{} 1$
χ_{21}		-20	0	2	0	0	0		0				$-2*E(8) - 2*E(8)^3$		0	0	0		0	0	0	0	0	0
χ_{22}	20	-20	0	2	0	0	0		0	0 -	-2 * E($8) - 2 * E(8)^3$	$2*E(8) + 2*E(8)^3$	0	0	0	0		0	0	0	0	0	0

 $\begin{bmatrix} 2 & -2 & 2 & -2 & 0 & 0 & 0 & 0 & \begin{bmatrix} 2 & -2 & -2 & 2 & 0 & 0 & 0 & 0 & 0 & -E(8) - E(8) 3 & E(8) + E(8) 3 & E(8) + E(8) 3 & -E(8) - E(8) 3 \end{bmatrix}$

 $i \in N_i$

Trivial source character table of $G \cong SL(2,9)$: C4 at p = 3

- subgroups of G up to conjugacy in

Ordinary character table of $G \cong SL(2,9)$: C4:

 $0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \begin{vmatrix} 27 & 27 & 3 & 27 & 3 & -1 & -1 & 2 \end{vmatrix}$ -1 2 -E(4) $\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \end{vmatrix} 36 \quad 36 \quad 0 \quad 0 \quad 0 \quad 1$ -2 1 $-E(8) - E(8)^3 - E(8) - E(8)^3 - E(8) + E(8)^3 - E(8)^3$ -2 1 $E(8) + E(8)^3$ $E(8) + E(8)^3$ $-E(8) - E(8)^3$ $-E(8) - E(8)^3$ $\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 1 \cdot \chi_{20} + 1 \cdot \chi_{21} + 1 \cdot \chi_{22} \end{vmatrix} 72 - 72 0 0 0 0 0 - 3$ -2 1 $E(8) - E(8)^3$ $-E(8) + E(8)^3$ $-E(8) + E(8)^3$ $E(8) - E(8)^3$ $\left[0 \cdot \chi_{1} + 0 \cdot \chi_{2} + 0 \cdot \chi_{3} + 0 \cdot \chi_{4} + 0 \cdot \chi_{5} + 0 \cdot \chi_{6} + 0 \cdot \chi_{7} + 0 \cdot \chi_{8} + 0 \cdot \chi_{9} + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \right] 36 \quad 36 \quad 0 \quad -36 \quad 0 \quad 0 \quad 1$ -2 1 $-E(8) + E(8)^3$ $E(8) - E(8)^3$ $E(8) - E(8)^3$ $-E(8) + E(8)^3$ $\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 0 \cdot \chi_{16} + 1 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \end{vmatrix} \ 36 \quad 36 \quad -4 \quad 36 \quad -4 \quad 0 \quad 1$ $\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 1 \cdot \chi_{16} + 0 \cdot \chi_{17} + 1 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \end{vmatrix} 36 \quad 36 \quad 4 \quad -36 \quad -4 \quad 0 \quad 1$ $\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \end{vmatrix} \ 9 \qquad 9 \qquad 1 \qquad 9 \qquad 1 \qquad 1 \qquad 1 \qquad -1$ $1 \quad -1 \quad -1$ 1 -1 -E(4)0 2 0 -2 0 00 2 0 $\left| \ 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \ \right| \ 10 \quad \ 10 \quad \ 2 \quad \ 10 \quad \ 2 \quad \ 0 \quad$ -2 0 0-2 0 0 $\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \end{vmatrix} \ 1 \qquad 1 \qquad -1 \qquad -1 \qquad 1 \qquad E(4) \qquad -E(4) \qquad 1$ $\begin{vmatrix} 0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17} + 0 \cdot \chi_{18} + 0 \cdot \chi_{19} + 0 \cdot \chi_{20} + 0 \cdot \chi_{21} + 0 \cdot \chi_{22} \end{vmatrix} \ 10 \quad 10 \quad -2 \quad -10 \quad 2 \quad 0 \quad 0 \quad 0$ $\begin{vmatrix} 2 & -2 & 2 & -2 & 0 & 0 & 0 & 0 & \begin{vmatrix} 2 & -2 & -2 & 2 & 0 & 0 & 0 & 0 & 0 & E(8) + E(8)^3 & -E(8) - E(8)^3 & -E(8) - E(8)^3 & E(8) + E(8)^3 & E(8)$

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

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