The group G is isomorphic to the alternating group A8. Ordinary character table of $G \cong A8$:

	1 <i>a</i>	2a	2b	3a	3b	4a	4b	5a	6a	6b	7a	7b	15a	15b
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	7	-1	3	4	1	-1	1	2	0	-1	0	0	-1	-1
χ_3	14	6	2	-1	2	2	0	-1	-1	0	0	0	-1	-1
χ_4	20	4	4	5	-1	0	0	0	1	1	-1	-1	0	0
χ_5	21	-3	1	6	0	1	-1	1	-2	0	0	0	1	1
χ_6	21	-3	1	-3	0	1	-1	1	1	0	0	0	$-E(15)^7 - E(15)^{11} - E(15)^{13} - E(15)^{14}$	$-E(15) - E(15)^2 - E(15)^4 - E(15)^8$
χ_7	21	-3	1	-3	0	1	-1	1	1	0	0	0	$-E(15) - E(15)^2 - E(15)^4 - E(15)^8$	$-E(15)^{7} - E(15)^{11} - E(15)^{13} - E(15)^{14}$
χ_8	28	-4	4	1	1	0	0	-2	1	-1	0	0	1	1
χ_9	35	3	-5	5	2	-1	-1	0	1	0	0	0	0	0
χ_{10}	45	-3	-3	0	0	1	1	0	0	0	$E(7) + E(7)^2 + E(7)^4$	$E(7)^3 + E(7)^5 + E(7)^6$	0	0
χ_{11}	45	-3	-3	0	0	1	1	0	0	0	$E(7)^3 + E(7)^5 + E(7)^6$	$E(7) + E(7)^2 + E(7)^4$	0	0
χ_{12}	56	8	0	-4	-1	0	0	1	0	-1	0	0	1	1
χ_{13}	64	0	0	4	-2	0	0	-1	0	0	1	1	-1	-1
χ_{14}	70	-2	2	-5	1	-2	0	0	-1	1	0	0	0	0

Trivial source character table of $G \cong A8$ at $p = 3$:																					
Normalisers N_i		N_1									N_2			N_3				N_4			
p-subgroups of G up to conjugacy in G				P_1										P_3				P_4			
Representatives $n_j \in N_i$	1 <i>a</i>	2b	2a	4b	4a	5a	7a	7b	1a	2a	2b	4a	5a	1a	2c	2a	$2b \mid 1$	a 2	c = 2a	2b	4a
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	63	3	-9	-3	3	3	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14}$	153	9			-3	3	-1	-1	0	0	0	0	0	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14}$	225	-3	9		-3		1	1	0	0	0	0	0	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	45	-3	-3	1	1		$E(7)^3 + E(7)^5 + E(7)^6$		0	0	0	0	0	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	45	-3	-3	1	1	0	$E(7) + E(7)^2 + E(7)^4$	$E(7)^3 + E(7)^5 + E(7)^6$	0	0	0	0	0	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14}$		6	-6	0	-2	-3	1	1	0	0	0	0	0	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$		6	18	0	2	0	-1	-1	0	0	0	0	0	0	0	0	0	0 0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14}$	135	3	15	1	3	0	2	2	0	0	0	0	0	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14}$	99	-5	3	-1	-1	-1	1	1	9	-3	1	1	-1	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	27	7	3	1	-1	2	-1	-1	9	3	1	-1	-1	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	111	-1	15	-1	-1	1	-1	-1	6	0	2	-2	1	0	0	0	0	0 0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 0 \cdot \chi_{14}$	93	5	-3	1	1	-2	2	2	6	0	2	2	1	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	21	1	-3	-1	1	1	0	0	6	0	-2	0	1	0	0	0	0	0 0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14}$		9	-7	1	-3	0	0	0	0	0	0	0	0	3	-1	1 .	-3	0 0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	15	3	7	1	3	0	1	1	0	0	0	0	0	3	1	1	3	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 1 \cdot \chi_{14}$	105	-3	1	-1	-3	0	0	0	0	0	0	0	0	3	1 .	-1	-3	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	105	-3	17	-1	1	0	0	0	0	0	0	0	0	3	-1 -	-1	3	0 0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	34	6	10	0	2	-1	-1	-1	4	2	0	0	-1	1	1	1	1	1 1	1	-1	-1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	28	4	-4	0	0	-2	0	0	1	1	1	1	1	1	-1	1 .	-1	1 –	1 1	1	-1
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1 1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	7	3	-1	1	-1	2	0	0	4	2	0	0	- 1	-	_	_	-1	_		-1	- 1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14}$	35	-5	3	-1	-1	0	0	0	5	-3	1	-1	0	2	0 -	-2	0	2 0	-2	0	0

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

 $P_2 = Group([(6, 8, 7)]) \cong C3$

 $P_3 = Group([(2,3,5)(6,8,7)]) \cong C3$

 $P_4 = Group([(6, 8, 7), (2, 3, 5)]) \cong C3 \times C3$

 $N_1 = AlternatingGroup([1..8]) \cong A8$ $N_2 = Group([(1, 2, 3, 4, 5), (6, 8, 7), (1, 2)(7, 8)]) \cong A5 : S3$

 $N_3 = Group([(2,3,5)(6,8,7),(6,8,7),(3,5)(6,7),(1,4)(2,6,3,8,5,7)]) \cong S3 \times S3$

 $N_4 = Group([(6, 8, 7), (1, 4)(2, 3)(6, 8, 7), (1, 4)(2, 6)(3, 8)(5, 7)]) \cong (S3 \times S3) : C2$