The group G is isomorphic to the group labelled by [336, 208] in the Small Groups library.
Ordinary character table of $G \cong$ PSL(3,2) : C2:

	$1a$	$2a$	$3a$	$4a$	$7a$	$2b$	$6a$	$8a$	$8b$
χ_1	1	1	1	1	1	1	1	1	1
χ_2	1	1	1	1	1	−1	−1	−1	−1
χ_3	6	−2	0	2	−1	0	0	0	0
χ_4	6	2	0	0	−1	0	0	$E(8)-E(8)^3$	$-E(8)+E(8)^3$
χ_5	6	2	0	0	−1	0	0	$-E(8)+E(8)^3$	$E(8)-E(8)^3$
χ_6	7	−1	1	−1	0	1	1	−1	−1
χ_7	7	−1	1	−1	0	−1	−1	1	1
χ_8	8	0	−1	0	1	2	−1	0	0
χ_9	8	0	−1	0	1	−2	1	0	0

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

Normalisers N_i	N_1			N_2	N_3		N_4	N_5	N_6		N_7	N_8	N_9	N_{10}
p-subgroups of G up to conjugacy in G	P_1			P_2	P_3		P_4	P_5	P_6		P_7	P_8	P_9	P_{10}
Representatives $n_j \in N_i$	$1a$	$3a$	$7a$	$1a$	$1a$	$3a$	$1a$	$1a$	$1a$	$3a$	$1a$	$1a$	$1a$	$1a$
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	16	4	2	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	32	2	−3	0	0	0	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+1\cdot\chi_9$	16	−2	2	0	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+2\cdot\chi_4+2\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	40	4	−2	8	0	0	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	8	2	1	0	2	2	0	0	0	0	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+1\cdot\chi_8+0\cdot\chi_9$	8	−1	1	0	2	−1	0	0	0	0	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	20	2	−1	4	2	2	2	0	0	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+2\cdot\chi_3+2\cdot\chi_4+2\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	52	4	−4	4	0	0	0	4	0	0	0	0	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	28	4	0	4	0	0	0	0	2	2	0	0	0	0
$0\cdot\chi_1+0\cdot\chi_2+0\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	12	0	−2	4	0	0	0	0	2	−1	0	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+1\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	26	2	−2	2	2	2	2	2	0	0	2	0	0	0
$1\cdot\chi_1+0\cdot\chi_2+1\cdot\chi_3+1\cdot\chi_4+1\cdot\chi_5+0\cdot\chi_6+1\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	26	2	−2	2	0	0	0	2	0	0	0	2	0	0
$1\cdot\chi_1+1\cdot\chi_2+0\cdot\chi_3+0\cdot\chi_4+0\cdot\chi_5+0\cdot\chi_6+0\cdot\chi_7+0\cdot\chi_8+0\cdot\chi_9$	2	2	2	2	0	0	0	2	2	2	0	0	2	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

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,7)(2,6)(3,4)(5,8)]) \cong$ C2
$P_3 = Group([(2,8)(3,4)(5,6)]) \cong$ C2
$P_4 = Group([(1,7)(2,6)(3,4)(5,8),(2,8)(3,4)(5,6)]) \cong$ C2 x C2
$P_5 = Group([(1,7)(2,6)(3,4)(5,8),(1,3,7,4)(2,5,6,8)]) \cong$ C4
$P_6 = Group([(1,7)(2,6)(3,4)(5,8),(1,6)(2,7)(3,5)(4,8)]) \cong$ C2 x C2
$P_7 = Group([(1,7)(2,6)(3,4)(5,8),(1,4)(2,6)(3,7),(2,8)(3,4)(5,6)]) \cong$ D8
$P_8 = Group([(1,7)(2,6)(3,4)(5,8),(1,2,3,5,7,6,4,8),(1,3,7,4)(2,5,6,8)]) \cong$ C8
$P_9 = Group([(1,7)(2,6)(3,4)(5,8),(1,8)(2,4)(3,6)(5,7),(1,3,7,4)(2,5,6,8)]) \cong$ D8
$P_{10} = Group([(1,7)(2,6)(3,4)(5,8),(1,4)(2,6)(3,7),(2,8)(3,4)(5,6),(1,2,3,5,7,6,4,8)]) \cong$ D16

$N_1 = Group([(2,4)(3,5)(7,8),(1,2,3)(4,6,7)]) \cong$ PSL(3,2) : C2
$N_2 = Group([(1,7)(2,6)(3,4)(5,8),(1,3)(4,7)(5,8),(1,8,4,6,7,5,3,2)]) \cong$ D16
$N_3 = Group([(2,8)(3,4)(5,6),(1,7)(3,5)(4,6),(1,7)(2,3)(4,8)]) \cong$ D12
$N_4 = Group([(2,8)(3,4)(5,6),(1,7)(2,6)(3,4)(5,8),(1,3)(4,7)(5,8)]) \cong$ D8
$N_5 = Group([(1,3,7,4)(2,5,6,8),(1,7)(2,6)(3,4)(5,8),(2,8)(3,4)(5,6),(1,2)(3,8)(4,5)(6,7)]) \cong$ D16
$N_6 = Group([(1,6)(2,7)(3,5)(4,8),(1,7)(2,6)(3,4)(5,8),(2,6,7)(3,4,5),(1,3,7,4)(2,5,6,8)]) \cong$ S4
$N_7 = Group([(2,8)(3,4)(5,6),(1,4)(2,6)(3,7),(1,7)(2,6)(3,4)(5,8),(1,2)(3,8)(4,5)(6,7)]) \cong$ D16
$N_8 = Group([(1,2,3,5,7,6,4,8),(1,3,7,4)(2,5,6,8),(1,7)(2,6)(3,4)(5,8),(2,8)(3,4)(5,6)]) \cong$ D16
$N_9 = Group([(1,3,7,4)(2,5,6,8),(1,8)(2,4)(3,6)(5,7),(1,7)(2,6)(3,4)(5,8),(2,8)(3,4)(5,6)]) \cong$ D16
$N_{10} = Group([(1,2,3,5,7,6,4,8),(2,8)(3,4)(5,6),(1,4)(2,6)(3,7),(1,7)(2,6)(3,4)(5,8)]) \cong$ D16