

The group G is isomorphical to the group labelled by [40, 8] in the Small Groups library.
 Ordinary character table of $G \cong (\text{C10} \times \text{C2}) : \text{C2}$:

	1a	2a	2b	2c	5a	4a	10a	10b	5b	10c	10d	10e	10f
χ_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
χ_3	1	-1	1	1	1	-1	1	1	1	1	1	1	1
χ_4	1	1	-1	1	1	-1	-1	1	1	-1	-1	1	-1
χ_5	2	0	0	-2	2	0	0	-2	2	0	0	-2	0
χ_6	2	0	-2	2	$E(5)^2 + E(5)^3$	0	$-E(5)^2 - E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$-E(5)^2 - E(5)^3$	$-E(5) - E(5)^4$	$E(5) + E(5)^4$	$-E(5) - E(5)^4$
χ_7	2	0	-2	2	$E(5) + E(5)^4$	0	$-E(5) - E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$-E(5) - E(5)^4$	$-E(5)^2 - E(5)^3$	$E(5)^2 + E(5)^3$	$-E(5)^2 - E(5)^3$
χ_8	2	0	0	-2	$E(5)^2 + E(5)^3$	0	$-E(5)^2 - E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$-E(5) - E(5)^4$	$-E(5)^2 - E(5)^3$	$E(5) - E(5)^4$	$-E(5) - E(5)^4$
χ_9	2	0	0	-2	$E(5)^2 + E(5)^3$	0	$E(5)^2 - E(5)^3$	$-E(5)^2 - E(5)^3$	$E(5) + E(5)^4$	$-E(5)^2 + E(5)^3$	$-E(5) + E(5)^4$	$-E(5) - E(5)^4$	$E(5) - E(5)^4$
χ_{10}	2	0	0	-2	$E(5) + E(5)^4$	0	$-E(5) + E(5)^4$	$-E(5) - E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) - E(5)^4$	$-E(5)^2 + E(5)^3$	$-E(5)^2 - E(5)^3$	$E(5)^2 - E(5)^3$
χ_{11}	2	0	0	-2	$E(5) + E(5)^4$	0	$E(5) - E(5)^4$	$-E(5) - E(5)^4$	$E(5)^2 + E(5)^3$	$-E(5) + E(5)^4$	$E(5)^2 - E(5)^3$	$-E(5)^2 - E(5)^3$	$-E(5)^2 + E(5)^3$
χ_{12}	2	0	2	2	$E(5)^2 + E(5)^3$	0	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5) + E(5)^4$
χ_{13}	2	0	2	2	$E(5) + E(5)^4$	0	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$

Trivial source character table of $G \cong (\text{C10} \times \text{C2}) : \text{C2}$ at $p = 2$:

Normalisers N_i	N_1			N_2			N_3					N_4	N_5				N_6	N_7	N_8
	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
Representatives $n_i \in N_i$	1a	5a	5b	1a	5a	5b	1a	5a	5b	5c	5d	1a	1a	5a	5b	1a	1a	1a	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 2 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13}$	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13}$	8	$4 * E(5)^2 + 4 * E(5)^3$	$4 * E(5) + 4 * E(5)^4$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13}$	8	$4 * E(5) + 4 * E(5)^4$	$4 * E(5)^2 + 4 * E(5)^3$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13}$	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13}$	4	$2 * E(5)^2 + 2 * E(5)^3$	$2 * E(5) + 2 * E(5)^4$	4	$2 * E(5)^2 + 2 * E(5)^3$	$2 * E(5) + 2 * E(5)^4$	4	$2 * E(5)^2 + 2 * E(5)^3$	$2 * E(5) + 2 * E(5)^4$	4	$2 * E(5)^2 + 2 * E(5)^3$	4	$2 * E(5) + 2 * E(5)^4$	$2 * E(5)^2 + 2 * E(5)^3$	4	$2 * E(5) + 2 * E(5)^4$	$2 * E(5)^2 + 2 * E(5)^3$	4	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13}$	4	$2 * E(5)$	$2 * E(5)^4$	4	$2 * E(5) + 2 * E(5)^4$	$2 * E(5)^2 + 2 * E(5)^3$	4	$2 * E(5)$	$2 * E(5)^4$	$2 * E(5)^2 + 2 * E(5)^3$	$2 * E(5)$	4	$2 * E(5)$	$2 * E(5)^4$	$2 * E(5)^2 + 2 * E(5)^3$	4	$2 * E(5)$	$2 * E(5)^4$	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13}$	4	4	4	0	0	0	2	2	2	2	2	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13}$	4	$2 * E(5) + 2 * E(5)^4$	$2 * E(5)^2 + 2 * E(5)^3$	0	0	0	2	$2 * E(5)$	$2 * E(5)^2$	$2 * E(5)^3$	$2 * E(5)^4$	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13}$	4	$2 * E(5)^2 + 2 * E(5)^3$	$2 * E(5) + 2 * E(5)^4$	0	0	0	2	$2 * E(5)^2$	$2 * E(5)^4$	$2 * E(5)$	$2 * E(5)^3$	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13}$	4	$2 * E(5)^2 + 2 * E(5)^3$	$2 * E(5) + 2 * E(5)^4$	0	0	0	2	$2 * E(5)^3$	$2 * E(5)$	$2 * E(5)^4$	$2 * E(5)^2$	0	0	0	0	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13}$	4	$2 * E(5)$	$2 * E(5)^4$	0	0	0	2	$2 * E(5)^4$	$2 * E(5)^3$	$2 * E(5)^2$	$2 * E(5)$	0	0	0	0	0	0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13}$	4	4	4	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13}$	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13}$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	2	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	0	0	
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13}$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	$E(5) + E(5)^4$	$E(5)^2 + E(5)^3$	0	2	$E(5)^2 + E(5)^3$	$E(5) + E(5)^4$	0	0	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13}$	2	2	2	2	2	2	0	0	0	0	0	2	0	0	0	2	0	0	
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13}$	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	2	0	
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

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

$$P_2 = Group([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 21)(16, 23)(18, 25)(20, 27)(22, 29)(24, 31)(26, 33)(28, 35)(30, 36)(32, 38)(34, 39)(37, 40)]) \cong \text{C2}$$

$$P_3 = Group([(1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(28, 34)(31, 36)(32, 37)(35, 39)(38, 40)]) \cong \text{C2}$$

$$P_4 = Group([(1, 2)(3, 13)(4, 7)(5, 32)(6, 9)(8, 28)(10, 40)(11, 38)(12, 24)(14, 39)(15, 35)(16, 20)(17, 37)(18, 36)(19, 31)(21, 34)(22, 33)(23, 27)(25, 30)(26, 29)]) \cong \text{C2}$$

$$P_5 = Group([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 21)(16, 23)(18, 25)(20, 27)(22, 29)(24, 31)(26, 33)(28, 35)(30, 36)(32, 38)(34, 39)(37, 40), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(28, 34)(31, 36)(32, 37)(35, 39)(38, 40)]) \cong \text{C2} \times \text{C2}$$

$$P_6 = Group([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 21)(16, 23)(18, 25)(20, 27)(22, 29)(24, 31)(26, 33)(28, 35)(30, 36)(32, 38)(34, 39)(37, 40), (1, 2)(3, 13)(4, 7)(5, 32)(6, 9)(8, 28)(10, 40)(11, 38)(12, 24)(14, 39)(15, 35)(16, 20)(17, 37)(18, 36)(19, 31)(21, 34)(22, 33)(23, 27)(25, 30)(26, 29)]) \cong \text{C2} \times \text{C2}$$

$$P_7 = Group([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 21)(16, 23)(18, 25)(20, 27)(22, 29)(24, 31)(26, 33)(28, 35)(30, 36)(32, 38)(34, 39)(37, 40), (1, 13, 4, 6)(2, 9, 7, 3)(5, 40, 11, 37)(8, 39, 15, 34)(10, 32, 17, 38)(12, 36, 19, 30)(14, 28, 21, 35)(16, 33, 23, 26)(18, 24, 25, 31)(20, 29, 27, 22)]) \cong \text{C4}$$

$$P_8 = Group([(1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 21)(16, 23)(18, 25)(20, 27)(22, 29)(24, 31)(26, 33)(28, 35)(30, 36)(32, 38)(34, 39)(37, 40), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(28, 34)(31, 36)(32, 37)(35, 39)(38, 40), (1, 2)(3, 13)(4, 7)(5, 32)(6, 9)(8, 28)(10, 40)(11, 38)(12, 24)(14, 39)(15, 35)(16, 20)(17, 37)(18, 36)(19, 31)(21, 34)(22, 33)(23, 27)(25, 30)(26, 29)]) \cong \text{D8}$$

$$N_1 = Group([(1, 2)(3, 13)(4, 7)(5, 32)(6, 9)(8, 28)(10, 40)(11, 38)(12, 24)(14, 39)(15, 35)(16, 20)(17, 37)(18, 36)(19, 31)(21, 34)(22, 33)(23, 27)(25, 30)(26, 29), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(28, 34)(31, 36)(32, 37)(35, 39)(38, 40), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 21)(16, 23)(18, 25)(20, 27)(22, 29)(24, 31)(26, 33)(28, 35)(30, 36)(32, 38)(34, 39)(37, 40), (1, 5, 12, 20, 28)(2, 8, 16, 24, 32)(3, 10, 18, 26, 34)(4, 11, 19, 27, 35)(6, 14, 22, 30, 37)(7, 15, 23, 31, 38)(9, 17, 25, 33, 39)(13, 21, 29, 36, 40)]) \cong (\text{C10} \times \text{C2}) : \text{C2}$$

$$N_2 = Group([(1, 2)(3, 13)(4, 7)(5, 32)(6, 9)(8, 28)(10, 40)(11, 38)(12, 24)(14, 39)(15, 35)(16, 20)(17, 37)(18, 36)(19, 31)(21, 34)(22, 33)(23, 27)(25, 30)(26, 29), (1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(28, 34)(31, 36)(32, 37)(35, 39)(38, 40), (1, 4)(2, 7)(3, 9)(5, 11)(6, 13)(8, 15)(10, 17)(12, 19)(14, 21)(16, 23)(18, 25)(20, 27)(22, 29)(24, 31)(26, 33)(28, 35)(30, 36)(32, 38)(34, 39)(37, 40), (1, 5, 12, 20, 28)(2, 8, 16, 24, 32)(3, 10, 18, 26, 34)(4, 11, 19, 27, 35)(6, 14, 22, 30, 37)(7, 15, 23, 31, 38)(9, 17, 25, 33, 39)(13, 21, 29, 36, 40)]) \cong (\text{C10} \times \text{C2}) : \text{C2}$$

$$N_3 = Group([(1, 3)(2, 6)(4, 9)(5, 10)(7, 13)(8, 14)(11, 17)(12, 18)(15, 21)(16, 22)(19, 25)(20, 26)(23, 29)(24, 30)(27, 33)(28, 34)(31, 36)(32, 37)(35, 39)(38, 40), (1, 5, 12, 20, 28)(2, 8, 16, 24, 32)(3, 10, 18, 26, 34)(4, 11, 19, 27, 35)(6, 14, 22, 30, 37)(7, 15, 23, 31, 38)(9, 17, 25, 33, 39)(13, 21, 29, 36, 40), (1, 27, 5, 35, 12, 4, 20, 11, 28, 19)(2, 31, 8, 38, 16, 7, 24, 15, 32, 23)(3, 33, 10, 39, 18, 9, 26, 17, 34, 25)(6, 36,$$