

The group  $G$  is isomorphic to the group labelled by [ 72, 41 ] in the Small Groups library.

Ordinary character table of  $G \cong (\text{C3} \times \text{C3}) : \text{Q8}$ :

	1 <i>a</i>	4 <i>a</i>	2 <i>a</i>	4 <i>b</i>	4 <i>c</i>	3 <i>a</i>
$\chi_1$	1	1	1	1	1	1
$\chi_2$	1	-1	1	-1	1	1
$\chi_3$	1	-1	1	1	-1	1
$\chi_4$	1	1	1	-1	-1	1
$\chi_5$	2	0	-2	0	0	2
$\chi_6$	8	0	0	0	0	-1

Trivial source character table of  $G \cong (\text{C3} \times \text{C3}) : \text{Q8}$  at  $p = 3$ :

Normalisers $N_i$	$N_1$					$N_2$		$N_3$				
$p$ -subgroups of $G$ up to conjugacy in $G$	$P_1$					$P_2$		$P_3$				
Representatives $n_j \in N_i$	1a	4a	2a	4b	4c	1a	2a	1a	4c	4a	2a	4b
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 2 \cdot \chi_6$	18	0	-2	0	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6$	9	1	1	-1	-1	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6$	9	1	1	1	1	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6$	9	-1	1	1	-1	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6$	9	-1	1	-1	1	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 2 \cdot \chi_5 + 1 \cdot \chi_6$	12	0	-4	0	0	3	-1	0	0	0	0	0
$1 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6$	12	0	4	0	0	3	1	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	-1	1	-1	1	1	1	1	1	-1	1	-1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	-1	1	1	-1	1	1	1	-1	-1	1	1
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	1	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6$	1	1	1	-1	-1	1	1	1	-1	1	1	-1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6$	2	0	-2	0	0	2	-2	2	0	0	-2	0

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

$$P_2 = \text{Group}([(1, 6, 3)(2, 8, 5)(4, 9, 7)]) \cong \text{C3}$$

$$P_3 = \text{Group}([(1, 6, 3)(2, 8, 5)(4, 9, 7), (1, 4, 2)(3, 7, 5)(6, 9, 8)]) \cong \text{C3} \times \text{C3}$$

$$N_1 = \text{Group}([(2, 8, 4, 7)(3, 9, 6, 5), (2, 3, 4, 6)(5, 7, 9, 8), (2, 4)(3, 6)(5, 9)(7, 8), (1, 2, 4)(3, 5, 7)(6, 8, 9), (1, 3, 6)(2, 5, 8)(4, 7, 9)]) \cong (\text{C3} \times \text{C3}) : \text{Q8}$$

$$N_2 = \text{Group}([(1, 6, 3)(2, 8, 5)(4, 9, 7), (2, 4)(3, 6)(5, 9)(7, 8), (1, 2, 4)(3, 5, 7)(6, 8, 9)]) \cong (\text{C3} \times \text{C3}) : \text{C2}$$

$$N_3 = \text{Group}([(1, 4, 2)(3, 7, 5)(6, 9, 8), (1, 6, 3)(2, 8, 5)(4, 9, 7), (2, 6, 4, 3)(5, 8, 9, 7), (2, 7, 4, 8)(3, 5, 6, 9)]) \cong (\text{C3} \times \text{C3}) : \text{Q8}$$