

The group  $G$  is isomorphic to the group labelled by [ 62, 1 ] in the Small Groups library.

Ordinary character table of  $G \cong \text{D62}$ :

	1a	31a	31b	31c	31d	31e	31f	31g	31h	31i	31j	31k	31l	31m	31n	31o	2a
$\chi_1$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_2$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_3$	2	$E(31) + E(31)^{30}$	$E(31)^2 + E(31)^{29}$	$E(31)^3 + E(31)^{28}$	$E(31)^4 + E(31)^{27}$	$E(31)^5 + E(31)^{26}$	$E(31)^6 + E(31)^{25}$	$E(31)^7 + E(31)^{24}$	$E(31)^8 + E(31)^{23}$	$E(31)^9 + E(31)^{22}$	$E(31)^{10} + E(31)^{21}$	$E(31)^{11} + E(31)^{20}$	$E(31)^{12} + E(31)^{19}$	$E(31)^{13} + E(31)^{18}$	$E(31)^{14} + E(31)^{17}$	$E(31)^{15} + E(31)^{16}$	0
$\chi_4$	2	$E(31)^2 + E(31)^{29}$	$E(31)^4 + E(31)^{27}$	$E(31)^6 + E(31)^{25}$	$E(31)^8 + E(31)^{23}$	$E(31)^{10} + E(31)^{21}$	$E(31)^{12} + E(31)^{19}$	$E(31)^{14} + E(31)^{17}$	$E(31)^{15} + E(31)^{16}$	$E(31)^{13} + E(31)^{18}$	$E(31)^{11} + E(31)^{20}$	$E(31)^9 + E(31)^{22}$	$E(31)^7 + E(31)^{24}$	$E(31)^5 + E(31)^{26}$	$E(31)^3 + E(31)^{28}$	$E(31) + E(31)^{30}$	0
$\chi_5$	2	$E(31)^3 + E(31)^{28}$	$E(31)^6 + E(31)^{25}$	$E(31)^9 + E(31)^{22}$	$E(31)^{12} + E(31)^{19}$	$E(31)^{15} + E(31)^{16}$	$E(31)^{13} + E(31)^{18}$	$E(31)^{10} + E(31)^{21}$	$E(31)^7 + E(31)^{24}$	$E(31)^4 + E(31)^{27}$	$E(31) + E(31)^{30}$	$E(31)^2 + E(31)^{29}$	$E(31)^5 + E(31)^{26}$	$E(31)^8 + E(31)^{23}$	$E(31)^{11} + E(31)^{20}$	$E(31)^{14} + E(31)^{17}$	0
$\chi_6$	2	$E(31)^4 + E(31)^{27}$	$E(31)^8 + E(31)^{23}$	$E(31)^{12} + E(31)^{19}$	$E(31)^{15} + E(31)^{16}$	$E(31)^{11} + E(31)^{20}$	$E(31)^7 + E(31)^{24}$	$E(31)^3 + E(31)^{28}$	$E(31) + E(31)^{30}$	$E(31)^5 + E(31)^{26}$	$E(31)^9 + E(31)^{22}$	$E(31)^{13} + E(31)^{18}$	$E(31)^{14} + E(31)^{17}$	$E(31)^{10} + E(31)^{21}$	$E(31)^6 + E(31)^{25}$	$E(31)^2 + E(31)^{29}$	0
$\chi_7$	2	$E(31)^5 + E(31)^{26}$	$E(31)^{10} + E(31)^{21}$	$E(31)^{15} + E(31)^{16}$	$E(31)^{11} + E(31)^{20}$	$E(31)^6 + E(31)^{25}$	$E(31) + E(31)^{30}$	$E(31)^4 + E(31)^{27}$	$E(31)^9 + E(31)^{22}$	$E(31)^{14} + E(31)^{17}$	$E(31)^{12} + E(31)^{19}$	$E(31)^7 + E(31)^{24}$	$E(31)^2 + E(31)^{29}$	$E(31)^3 + E(31)^{28}$	$E(31)^8 + E(31)^{23}$	$E(31)^{13} + E(31)^{18}$	0
$\chi_8$	2	$E(31)^6 + E(31)^{25}$	$E(31)^{12} + E(31)^{19}$	$E(31)^{13} + E(31)^{18}$	$E(31)^7 + E(31)^{24}$	$E(31) + E(31)^{30}$	$E(31)^5 + E(31)^{26}$	$E(31)^{11} + E(31)^{20}$	$E(31)^{14} + E(31)^{17}$	$E(31)^8 + E(31)^{23}$	$E(31)^2 + E(31)^{29}$	$E(31)^4 + E(31)^{27}$	$E(31)^{10} + E(31)^{21}$	$E(31)^{15} + E(31)^{16}$	$E(31)^9 + E(31)^{22}$	$E(31)^3 + E(31)^{28}$	0
$\chi_9$	2	$E(31)^7 + E(31)^{24}$	$E(31)^{14} + E(31)^{17}$	$E(31)^{10} + E(31)^{21}$	$E(31)^3 + E(31)^{28}$	$E(31)^4 + E(31)^{27}$	$E(31)^{11} + E(31)^{20}$	$E(31)^{13} + E(31)^{18}$	$E(31)^6 + E(31)^{25}$	$E(31) + E(31)^{30}$	$E(31)^8 + E(31)^{23}$	$E(31)^{15} + E(31)^{16}$	$E(31)^9 + E(31)^{22}$	$E(31)^2 + E(31)^{29}$	$E(31)^5 + E(31)^{26}$	$E(31)^{12} + E(31)^{19}$	0
$\chi_{10}$	2	$E(31)^8 + E(31)^{23}$	$E(31)^{15} + E(31)^{16}$	$E(31)^7 + E(31)^{24}$	$E(31) + E(31)^{30}$	$E(31)^9 + E(31)^{22}$	$E(31)^{14} + E(31)^{17}$	$E(31)^6 + E(31)^{25}$	$E(31)^2 + E(31)^{29}$	$E(31)^{10} + E(31)^{21}$	$E(31)^{13} + E(31)^{18}$	$E(31)^5 + E(31)^{26}$	$E(31)^3 + E(31)^{28}$	$E(31)^{11} + E(31)^{20}$	$E(31)^{12} + E(31)^{19}$	$E(31)^4 + E(31)^{27}$	0
$\chi_{11}$	2	$E(31)^9 + E(31)^{22}$	$E(31)^{13} + E(31)^{18}$	$E(31)^4 + E(31)^{27}$	$E(31)^5 + E(31)^{26}$	$E(31)^{14} + E(31)^{17}$	$E(31)^8 + E(31)^{23}$	$E(31) + E(31)^{30}$	$E(31)^{10} + E(31)^{21}$	$E(31)^{12} + E(31)^{19}$	$E(31)^3 + E(31)^{28}$	$E(31)^6 + E(31)^{25}$	$E(31)^{15} + E(31)^{16}$	$E(31)^7 + E(31)^{24}$	$E(31)^2 + E(31)^{29}$	$E(31)^{11} + E(31)^{20}$	0
$\chi_{12}$	2	$E(31)^{10} + E(31)^{21}$	$E(31)^{11} + E(31)^{20}$	$E(31) + E(31)^{30}$	$E(31)^9 + E(31)^{22}$	$E(31)^{12} + E(31)^{19}$	$E(31)^2 + E(31)^{29}$	$E(31)^8 + E(31)^{23}$	$E(31)^{13} + E(31)^{18}$	$E(31)^3 + E(31)^{28}$	$E(31)^7 + E(31)^{24}$	$E(31)^{14} + E(31)^{17}$	$E(31)^4 + E(31)^{27}$	$E(31)^6 + E(31)^{25}$	$E(31)^{15} + E(31)^{16}$	$E(31)^5 + E(31)^{26}$	0
$\chi_{13}$	2	$E(31)^{11} + E(31)^{20}$	$E(31)^9 + E(31)^{22}$	$E(31)^2 + E(31)^{29}$	$E(31)^{13} + E(31)^{18}$	$E(31)^7 + E(31)^{24}$	$E(31)^4 + E(31)^{27}$	$E(31)^{15} + E(31)^{16}$	$E(31)^5 + E(31)^{26}$	$E(31)^6 + E(31)^{25}$	$E(31)^{14} + E(31)^{17}$	$E(31)^3 + E(31)^{28}$	$E(31)^8 + E(31)^{23}$	$E(31)^{12} + E(31)^{19}$	$E(31) + E(31)^{30}$	$E(31)^{10} + E(31)^{21}$	0
$\chi_{14}$	2	$E(31)^{12} + E(31)^{19}$	$E(31)^7 + E(31)^{24}$	$E(31)^5 + E(31)^{26}$	$E(31)^{14} + E(31)^{17}$	$E(31)^2 + E(31)^{29}$	$E(31)^{10} + E(31)^{21}$	$E(31)^9 + E(31)^{22}$	$E(31)^3 + E(31)^{28}$	$E(31)^{15} + E(31)^{16}$	$E(31)^4 + E(31)^{27}$	$E(31)^8 + E(31)^{23}$	$E(31)^{11} + E(31)^{20}$	$E(31) + E(31)^{30}$	$E(31)^{13} + E(31)^{18}$	$E(31)^6 + E(31)^{25}$	0
$\chi_{15}$	2	$E(31)^{13} + E(31)^{18}$	$E(31)^5 + E(31)^{26}$	$E(31)^8 + E(31)^{23}$	$E(31)^{10} + E(31)^{21}$	$E(31)^3 + E(31)^{28}$	$E(31)^{15} + E(31)^{16}$	$E(31)^2 + E(31)^{29}$	$E(31)^{11} + E(31)^{20}$	$E(31)^7 + E(31)^{24}$	$E(31)^6 + E(31)^{25}$	$E(31)^{12} + E(31)^{19}$	$E(31) + E(31)^{30}$	$E(31)^{14} + E(31)^{17}$	$E(31)^4 + E(31)^{27}$	$E(31)^9 + E(31)^{22}$	0
$\chi_{16}$	2	$E(31)^{14} + E(31)^{17}$	$E(31)^3 + E(31)^{28}$	$E(31)^{11} + E(31)^{20}$	$E(31)^6 + E(31)^{25}$	$E(31)^8 + E(31)^{23}$	$E(31)^9 + E(31)^{22}$	$E(31)^5 + E(31)^{26}$	$E(31)^{12} + E(31)^{19}$	$E(31)^2 + E(31)^{29}$	$E(31)^{15} + E(31)^{16}$	$E(31) + E(31)^{30}$	$E(31)^{13} + E(31)^{18}$	$E(31)^4 + E(31)^{27}$	$E(31)^{10} + E(31)^{21}$	$E(31)^7 + E(31)^{24}$	0
$\chi_{17}$	2	$E(31)^{15} + E(31)^{16}$	$E(31) + E(31)^{30}$	$E(31)^{14} + E(31)^{17}$	$E(31)^2 + E(31)^{29}$	$E(31)^{13} + E(31)^{18}$	$E(31)^3 + E(31)^{28}$	$E(31)^{12} + E(31)^{19}$	$E(31)^4 + E(31)^{27}$	$E(31)^{11} + E(31)^{20}$	$E(31)^5 + E(31)^{26}$	$E(31)^{10} + E(31)^{21}$	$E(31)^6 + E(31)^{25}$	$E(31)^9 + E(31)^{22}$	$E(31)^7 + E(31)^{24}$	$E(31)^8 + E(31)^{23}$	0

Trivial source character table of  $G \cong \text{D62}$  at  $p = 31$ :

Normalisers $N_i$	$N_1$		$N_2$	
$p$ -subgroups of $G$ up to conjugacy in $G$	$P_1$		$P_2$	
Representatives $n_j \in N_i$	1a	2a	1a	2a
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17}$	31	-1	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 1 \cdot \chi_4 + 1 \cdot \chi_5 + 1 \cdot \chi_6 + 1 \cdot \chi_7 + 1 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16} + 1 \cdot \chi_{17}$	31	1	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	1	1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16} + 0 \cdot \chi_{17}$	1	-1	1	-1

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

$$P_2 = \text{Group}([(1, 55, 47, 39, 31, 23, 15, 7, 61, 53, 45, 37, 29, 21, 13, 5, 59, 51, 43, 35, 27, 19, 11, 3, 57, 49, 41, 33, 25, 17, 9)(2, 56, 48, 40, 32, 24, 16, 8, 62, 54, 46, 38, 30, 22, 14, 6, 60, 52, 44, 36, 28, 20, 12, 4, 58, 50, 42, 34, 26, 18, 10)]) \cong \text{C31}$$

$$N_1 = \text{Group}([(1, 2)(3, 62)(4, 61)(5, 60)(6, 59)(7, 58)(8, 57)(9, 56)(10, 55)(11, 54)(12, 53)(13, 52)(14, 51)(15, 50)(16, 49)(17, 48)(18, 47)(19, 46)(20, 45)(21, 44)(22, 43)(23, 42)(24, 41)(25, 40)(26, 39)(27, 38)(28, 37)(29, 36)(30, 35)(31, 34)(32, 33), (1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61)(2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62)]) \cong \text{D62}$$

$$N_2 = \text{Group}([(1, 55, 47, 39, 31, 23, 15, 7, 61, 53, 45, 37, 29, 21, 13, 5, 59, 51, 43, 35, 27, 19, 11, 3, 57, 49, 41, 33, 25, 17, 9)(2, 56, 48, 40, 32, 24, 16, 8, 62, 54, 46, 38, 30, 22, 14, 6, 60, 52, 44, 36, 28, 20, 12, 4, 58, 50, 42, 34, 26, 18, 10), (1, 2)(3, 62)(4, 61)(5, 60)(6, 59)(7, 58)(8, 57)(9, 56)(10, 55)(11, 54)(12, 53)(13, 52)(14, 51)(15, 50)(16, 49)(17, 48)(18, 47)(19, 46)(20, 45)(21, 44)(22, 43)(23, 42)(24, 41)(25, 40)(26, 39)(27, 38)(28, 37)(29, 36)(30, 35)(31, 34)(32, 33)]) \cong \text{D62}$$