Number of vertices $n = 9$.
Adjacencies of Graph

1. vertex 1 adjacent to 3 4 5 6 7 8 9

2. vertex 2 adjacent to 3 4 5 6 7 8 9

3. vertex 3 adjacent to 1 2

4. vertex 4 adjacent to 1 2

5. vertex 5 adjacent to 1 2

6. vertex 6 adjacent to 1 2

7. vertex 7 adjacent to 1 2

8. vertex 8 adjacent to 1 2

9. vertex 9 adjacent to 1 2

Size of automorphism group of the graph=10080
Full group: $|Aut(polytope)| = 832359628800$
Restricted group: $|Aut(G) \times switch| = 2580480$
Number of orbits for the full group : 1
List of orbits of facets for the full group: Total number of orbits $= 1$ Total number of facets $= 196$

1. Inequality 1 with incidence 128 and stabilizer of size 4246732800. Orbit size is 196

(1,3) : 0	(1,4) : 0	(1,5) : 0	(1,6) : 1	(1,7) : 0	(1,8) : 1
(1,9) : 0	(2,3) : 0	(2,4) : 0	(2,5) : 0	(2,6) : 1	(2,7) : 0
(2,8) : -1	(2,9) : 0				

Number of orbits for the restricted group : 2
List of orbits of facets for the restricted group: Total number of orbits $=$ 2 Total number of facets $= 196$

1. Inequality 1 with incidence 128 and stabilizer of size 15360. Orbit size is 168

(1,3) : 0	(1,4) : 0	(1,5) : 0	(1,6) : 1	(1,7) : 0	(1,8) : 1
(1,9) : 0	(2,3) : 0	(2,4) : 0	(2,5) : 0	(2,6) : 1	(2,7) : 0
(2,8) : -1	(2,9) : 0				

2. Inequality 2 with incidence 128 and stabilizer of size 92160. Orbit size is 28

(1,3) : 0	(1,4) : 0	(1,5) : 0	(1,6) : 0	(1,7) : 0	(1,8) : 1
(1,9) : 0	(2,3) : 0	(2,4) : 0	(2,5) : 0	(2,6) : 0	(2,7) : 0
(2,8) : 0	(2,9) : 0				