

# Compensating Euphonium Harmonics and Fingerings

**Notes:**

1. The top number next to each staff indicates harmonic.
2. The bottom number next to each staff indicates the degree (in cents) to which the given harmonic differs from equal temperament. Flat is indicated via the "-" and Sharp via "+" preceding numbers.
3. Numbers below notes indicate a possible fingering for each note.
4. Valve combinations will normally be sharp. Generally, use as few valves as possible.
5. Only the twelve most commonly used valve combinations have been included. Other possible valve combinations are: 3, 13, 123, and 34.

10  
-14

0 2 1 12 23 4 24 14 124 234 134 1234

9  
+4

0 2 1 12 23 4 24 14 124 234 134 1234

8  
0.0

0 2 1 12 23 4 24 14 124 234 134 1234

7  
-31

0 2 1 12 23 4 24 14 124 234 134 1234

6  
+2

0 2 1 12 23 4 24 14 124 234 134 1234

5  
+14

0 2 1 12 23 4 24 14 124 234 134 1234

4  
0.0

0 2 1 12 23 4 24 14 124 234 134 1234

3  
+2

0 2 1 12 23 4 24 14 124 234 134 1234

2  
0.0

0 2 1 12 23 4 24 14 124 234 134 1234

1  
0.0

0 2 1 12 23 4 24 14 124 234 134 1234