

# Overtone Series Chart for Euphonium (Bass Clef)

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The differences between compensating and non-compensating instruments on fourth-valve combinations are clearly indicated.

Partial	0	2	1	1-2 3	2-3	4 1-3	2-4 1-2-3	Compensating: 1-4	Compensating: 1-2-4	Compensating: 2-3-4	Compensating: 1-3-4	Compensating: 1-2-3-4
12th Partial (Sharp--Lower Slightly)												
11th Partial (Very Flat--Unusable)												
10th Partial (Flat--Raise Slightly)												
9th Partial (Sharp--Lower Slightly)												
8th Partial (Normal)												
7th Partial (Very Flat--Unusable)												
6th Partial (Sharp--Lower Slightly)												
5th Partial (Flat--Raise Slightly)												
4th Partial (Normal)												
3rd Partial (Sharp--Lower Slightly)												
2nd Partial (Normal)												
Fundamental (Normal)												

Legend:

Compensating: 1-2-4	Compensating: 2-3-4	Compensating: 1-3-4	Compensating: 1-2-3-4
Non-Compensating: 1-2-4	Non-Compensating: 2-3-4	Non-Compensating: 1-3-4	Non-Compensating: 1-2-3-4
1-4			(Not present. False tones only.)