

Tuning

Frequencies for equal-tempered scale, $A_4 = 440 \text{ Hz}$

Other tuning choices, A₄ = 432 434 436 438 440 442 444 446

Speed of Sound = 345 m/s = 1130 ft/s = 770 miles/hr
More about Speed of Sound

Note	rrequency (112)	Wavelength (cm)
C_0	16.35	2109.89
$\frac{C^{\#}_{0}/D^{b}_{0}}{D_{0}}$	17.32	1991.47 1879.69
D [#] ₀ /E ^b ₀	19.45	1774.20
$\frac{E_0}{F_0}$	20.60	1674.62 1580.63
F [#] ₀ /G ^b ₀	23.12	1491.91
G_0 $G_0^{\#}/A_0^{b}$	24.50 25.96	1408.18 1329.14
$\frac{G_0/A_0}{A_0}$	27.50	1254.55
A [#] ₀ /B ^b ₀	29.14	1184.13
$\frac{B_0}{C_1}$	30.87	1117.67
C [#] ₁ /D ^b ₁	34.65	995.73
$\frac{D_1}{D_1^{\#}/E_1^{b}}$	36.71	939.85
E ₁	41.20	837.31
$\frac{F_1}{F_1^{\#}/G_1^{b}}$	43.65	790.31 745.96
G ₁	49.00	704.09
$\frac{G^{\#}_{1}/A^{b}_{1}}{A_{1}}$	51.91	664.57
$A^{\#}_{1}/B^{b}_{1}$	58.27	592.07
B ₁ C ₂	61.74	558.84 527.47
$C_2^{\#}$	69.30	497.87
D ₂	73.42	469.92
$\frac{D^{\#}_{2}/E^{b}_{2}}{E_{2}}$	77.78 82.41	443.55
F ₂	87.31	395.16
$\frac{F^{\#}_{2}/G^{b}_{2}}{G_{2}}$	92.50	372.98 352.04
$G^{\#}_{2}/A^{b}_{2}$	103.83	332.29
A_2 $A_2^{\#}/B_2^{b}$	110.00	313.64
$\frac{A_2^{\prime\prime}/B_2^{\prime\prime}}{B_2}$	116.54	296.03 279.42
C ₃	130.81	263.74
$\frac{\mathrm{C^{\#}_{3}/D^{b}_{3}}}{\mathrm{D_{3}}}$	138.59	248.93
D#3/Eb3	155.56	221.77
$\frac{E_3}{F_3}$	164.81	209.33
F [#] ₃ /G ^b ₃	185.00	186.49
$\frac{G_3}{G_{3}^{\#}/A_{3}^{b}}$	196.00	176.02
A ₃	220.00	156.82
$\frac{A^{\#}_{3}/B^{b}_{3}}{B_{3}}$	233.08	148.02
C ₄	261.63	131.87
$\frac{C^{\#}_{4}/D^{b}_{4}}{D_{4}}$	277.18	124.47
$D_{4}^{\#}$	311.13	117.48
E ₄	329.63	104.66
F [#] ₄ /G ^b ₄	349.23	98.79
G ₄	392.00	88.01
$\frac{G^{\#}_{4}/A^{b}_{4}}{A_{4}}$	415.30	83.07 78.41
A [#] ₄ /B ^b ₄	466.16	74.01
$\frac{B_4}{C_5}$	493.88 523.25	69.85
C# ₅ /D ^b ₅	554.37	62.23
D_{5} $D_{5}^{\#}/E_{5}^{b}$	587.33	58.74
E ₅	659.25	52.33
$\frac{F_5}{F_5/G_5^b}$	739.99	49.39
G ₅	783.99	44.01
$\frac{G^{\#}_{5}/A^{b}_{5}}{A_{5}}$	830.61 880.00	41.54 39.20
$A_{5}^{\#}$ $A_{5}^{\#}/B_{5}^{b}$	932.33	37.00
B ₅ C ₆	987.77 1046.50	34.93
C [#] ₆ /D ^b ₆	1108.73	31.12
D ₆	1174.66	29.37
$\frac{D^{\#}_{6}/E^{b}_{6}}{E_{6}}$	1244.51	27.72
F ₆	1396.91	24.70
$\frac{F^{\#}_{6}/G^{b}_{6}}{G_{6}}$	1479.98 1567.98	23.31
G [#] ₆ /A ^b ₆	1661.22	20.77
$\frac{A_6}{A_{6}^{\#}/B_{6}^{b}}$	1760.00 1864.66	19.60 18.50
В ₆	1975.53	17.46
$\frac{{\rm C_7}}{{\rm C^{\#}_7/D^b_7}}$	2093.00	16.48 15.56
D ₇	2349.32	14.69
$D^{\#}_{7}/E^{b}_{7}$ E_{7}	2489.02 2637.02	13.86 13.08
F ₇	2793.83	12.35
$F^{\#}_{7}/G^{b}_{7}$ G_{7}	2959.96	11.66
$G_{7}^{\#}/A_{7}^{b}$	3135.96	11.00
A ₇	3520.00	9.80
$\frac{A^{\#}_{7}/B^{b}_{7}}{B_{7}}$	3729.31 3951.07	9.25 8.73
C ₈	4186.01	8.24
$\frac{{\rm C^{\#}_{8}/D^{b}_{8}}}{{\rm D_{8}}}$	4434.92	7.78
D# ₈ /E ^b ₈	4978.03	6.93
E ₈	5274.04	6.54
$\frac{F_8}{F_8'/G_8^b}$	5587.65	5.83
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G_8	6271.93	5.50
	6271.93 6644.88 7040.00	5.50 5.19 4.90

B₈ 7902.13 4.37

(To convert lengths in cm to inches, divide by 2.54)