MIDI NOTE NUMBERS AND CENTER FREQUENCIES

The following table summarizes the MIDI note numbers as defined in the MIDI standard and matched to the Middle C (note number 60) as C4.

The formula connecting the MIDI note number and the base frequency - assuming equal tuning based on A4=a'=440 Hz - is:

$f=440\cdot 2^{(n-69)/12}$

MIDI note number	Key number (Organ)		Note names (English)	Note names (German)	Frequency (Equal tuning at 440 Hz)
top of MIDI tuning range			G#9/Ab9	gis'''''/ges''''	13289.75
127			G9	g"""	12543.85
126			F#9/Gb9	fis"""/ges"""	
125			F9	f"""	11175.30
124			E9	e"""	10548.08
123			D#9/Eb9	dis"""/es"""	9956.06
122			D9	d"""	9397.27
121			C#9/Db9	cis"""/des"""	8869.84
120			C9	c"""	8372.02
119			B8	h"""	7902.13
118			A#8/Bb8	ais""/b""	7458.62
117			A8	a''''	7040.00
116			G#8/Ab8	gis""/ges""	6644.88
115			G8	g"""	6271.93
114			F#8/Gb8	fis""/ges""	5919.91
113			F8	f"""	5587.65
112			E8	e"""	5274.04
111			D#8/Eb8	dis""'/es""	4978.03
110			D8	d"""	4698.64
109			C#8/Db8	cis""/des""	4434.92
108		88	C8	c"""	4186.01
107		87	B7	h''''	3951.07
106		86	A#7/Bb7	ais""/b""	3729.31
105		85	A7	a''"	3520.00
104		84	G#7/Ab7	gis""/ges""	3322.44
103		83	G7	g""	3135.96
102		82	F#7/Gb7	fis''''/ges''''	2959.96
101		81	F7	f""	2793.83
100		80	E7	e''''	2637.02
99		79	D#7/Eb7	dis""/es""	2489.02
98		78	D7	d""	2349.32
97		77	C#7/Db7	cis''''/des''''	2217.46
96	61	76 	C7	C""	2093.00
95	60	75 	B6	h'''	1975.53
94	59 50	74 70	A#6/Bb6	ais"'/b"	1864.66
93	58 57	73	A6	a""	1760.00
92	57 50	72	G#6/Ab6	gis"'/as"	1661.22
91	56	71	G6	g"'	1567.98
90	55 54	70	F#6/Gb6	fis'"/ges'"	1479.98
89	54	69	F6	f'''	1396.91

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88	53	68	E6	e'''	1318.51
87	52	67	D#6/Eb6	dis'''/es'''	1244.51
86	51	66	D6	d'''	1174.66
85	50	65	C#6/Db6	cis""/des""	1108.73
84	49	64	C6	C'''	1046.50
83	48	63	B5	h"	987.77
82	47	62	A#5/Bb5	ais"/b"	932.33
81	46	61	A5	a"	00.088
80	45	60	G#5/Ab5	gis"/as"	830.61
79	44	59	G5	g"	783.99
78	43	58	F#5/Gb5	fis"/ges"	739.99
77	42	57	F5	f"	698.46
76	41	56	E5	e"	659.26
75	40	55	D#5/Eb5	dis"/es"	622.25
74	39	54	D5	d"	587.33
73	38	53	C#5/Db5	cis"/des"	554.37
72	37	52	C5	c"	523.25
71	36	51	B4	h'	493.88
70	35	50	A#4/Bb4	ais'/b'	466.16
-			A4		
69	34	49	concert	a'	440.00
			pitch	Kammerton	
68	33	48	G#4/Ab4	gis'/as'	415.30
67	32	47	G4	g'	392.00
66	31	46	F#4/Gb4	fis'/ges'	369.99
65	30	45	F4	f'	349.23
64	29	44	E4	e'	329.63
63	28	43	D#4/Eb4	dis'/es'	311.13
62	27	42	D4	ď'	293.66
61	26	41	C#4/Db4	cis'/des'	277.18
	25	40	C4	c' (Schloss-	004.00
60	25	40	(middle C) C) `	261.63
59	24	39	B3	h	246.94
58	23	38	A#3/Bb3	ais/b	233.08
57	22	37	A3	а	220.00
56	21	36	G#3/Ab3	gis/as	207.65
55	20	35	G3	g	196.00
54	19	34	F#3/Gb3	fis/ges	185.00
53	18	33	F3	f	174.61
52	17	32	E3	е	164.81
51	16	31	D#3/Eb3	dis/es	155.56
50	15	30	D3	d	146.83
49	14	29	C#3/Db3	cis/des	138.59
48	13	28	C3	С	130.81
47	12	27	B2	H	123.47
46	11	26	A#2/Bb2	Ais/B	116.54
45	10	25	A2	A	110.00
44	9	24	G#2/Ab2	Gis/As	103.83
43	8	23	G2	G	98.00
42	7	22	F#2/Gb2	Fis/Ges	92.50
41	6	21	F2	F	87.31
40	5	20	E2	E	82.41
40	J	20	LZ	_	04. 4 i

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	4	10			
39 30	4 3	19 18	D#2/Eb2	Dis/Es D	77.78 73.42
38	2		D2		
37 36	1	17 16	C#2/Db2	Cis/Des	69.30
36 35	ı	16 15	C2	C	65.41
35		15	B1	H1	61.74
34		14 13	A#1/Bb1 A1	Ais1/b1 A1	58.27
33 32		12	G#1/Ab1	Gis1/As1	55.00 51.91
31		11	G#1/A01	GIS I/AS I	49.00
30		10	F#1/Gb1	Fis1/Ges1	46.25
29		9	F#1/Gb1	F1	43.65
28		8	E1	E1	41.20
27		7	D#1/Eb1	Dis1/Es1	38.89
26		6	D#1/L01	DIS 1/LS 1	36.71
25		5	C#1/Db1	Cis1/Des1	34.65
24		4	C#1/D01	CIST/Dest	32.70
23		3	B0	H2	30.87
22		2	A#0/Bb0	Ais2/B2	29.14
21		1	A0	A32/D2	27.50
20		'	710	/ _	25.96
19					24.50
18					23.12
17					21.83
16					20.60
15					19.45
14					18.35
13					17.32
12					16.35
11					15.43
10					14.57
9					13.75
8					12.98
7					12.25
6					11.56
5					10.91
4					10.30
3					9.72
2					9.18
1					8.66
0					8.18