

Correspondance décibel-amplitude

Decibels to linear amplitude

Ce tableau montre la correspondance entre les trois modes de mesure de l'amplitude les plus courants en informatique musicale. Ce tableau est utile lorsque vous faites du traitement numérique du signal ou de la synthèse de son.

Conversion between decibel scale and linear amplitude for 16-bit digital systems. This chart may prove useful when working with digital sound synthesis and digital representation of sound in general.

Marc Battier, 1996

dB	Amp. relative	Amp. sur 16 bits	dB	Amp. relative	Amp. sur 16 bits
0	1.0000	32767.0	-30	0.0316	1036.2
-1	0.8913	29203.6	-31	0.0282	923.5
-2	0.7943	26027.8	-32	0.0251	823.1
-3	0.7079	23197.3	-33	0.0224	733.6
-3	0.6310	20674.6	-34	0.0200	653.8
-5	0.5623	18426.2	-35	0.0178	582.7
-6	0.5012	16422.4	-36	0.0158	519.3
-7	0.4467	14636.5	-37	0.0141	462.8
-8	0.3981	13044.8	-38	0.0126	412.5
-9	0.3548	11626.2	-39	0.0112	367.7
-10	0.3162	10361.8	-40	0.0100	327.7
-11	0.2818	9235.0	-41	0.0089	292.0
-12	0.2512	8230.7	-42	0.0079	260.3
-13	0.2239	7335.6	-43	0.0071	232.0
-14	0.1995	6537.9	-44	0.0063	206.7
-15	0.1778	5826.9	-45	0.0056	184.3
-16	0.1585	5193.2	-46	0.0050	164.2
-17	0.1413	4628.5	-47	0.0045	146.4
-18	0.1259	4125.1	-48	0.0040	130.4
-19	0.1122	3676.5	-49	0.0035	116.3
-20	0.1000	3276.7	-50	0.0032	103.6
-21	0.0891	2920.4	-51	0.0028	92.3
-22	0.0794	2602.8	-52	0.0025	82.3
-23	0.0708	2319.7	-53	0.0022	73.4
-24	0.0631	2067.5	-54	0.0020	65.4
-25	0.0562	1842.6	-55	0.0018	58.3
-26	0.0501	1642.2	-56	0.0016	51.9
-27	0.0447	1463.6	-57	0.0014	46.3
-28	0.0398	1304.5	-58	0.0013	41.3
-29	0.0355	1162.6	-59	0.0011	36.8
			-60	0.0010	32.8