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I S O 8253-2:2009  
Acoustics — Audiometric test methods —  
Part 2: Sound field audiometry with pure-tone and narrow-band test signals  
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» (ISO 8253-2:2009

«Acoustics — Audiometric test methods — Part 2: Sound field audiometry with pure-tone and narrow-band test signals»).

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Acoustic». Audiometric test methods. Part 2. Sound field audiometry with pure-tone and narrow-band test signals

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226 (ISO 226. Acoustics — Normal  
 equal-loudness-level contours)  
 266 (ISO 266. Acoustics — Preferred frequencies)  
 389-7 . 7.  
 (ISO 389-7. Acoustics — Reference zero for the calibration of audiometric equipment» Part 7:  
 Reference threshold of hearing under free-field and diffuse-field listening conditions)  
 8253-1:2010 . 1. -  
 (ISO 8253-1:2010. Acoustics — Audiometric test  
 methods — Part 1: Basic pure-tone air and bone conduction threshold audiometry)  
 60581-7 .  
 7. (IEC 60581-7. High  
 fidelity audio equipment and systems — Minimum performance requirements — Part 7: Loudspeakers)  
 60645-1 . 1.  
 (IEC 60645-1, Electroacoustics — Audiometric equipment — Part 1: Equipment for  
 pure-tone audiometry)  
 61672-1 . 1. (IEC 61672-1.  
 Electroacoustics — Sound level meters — Part 1: Specifications)

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3.1	(air conduction):		-
3.2	(otologically normal person):		-
3.3	(reference point):		-
3.4	(reference axis):		-
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	2 —		-
3.5	(hearing threshold):		50 %
3.6	(threshold sound pressure level):		-
3.7	(reference threshold sound pressure level):		18
	25		-
3.8	(hearing level):		
3.9	(hearing threshold level):		-
3.10	( ) (carrier frequency of frequency-modulated tone):		
3.11	(frequency deviation):		
3.12	(free sound field):		
3.13	(quasi-free sound field):		
		5.4	
3.14	(diffuse sound field):		-
3.15	(white noise):		
3.16	( ) (noise bandwidth):		-

3.17 ( ) (centre frequency of a noise band):

3.18 ( ) (functional gain of a hearing aid):

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60	27	36
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125	17	25
160	14	18
200	12	12
250	10	10
315	8	6
400	6	6
500	5	5
630	5	5
800	4	4
1000	4	4
1250	4	4
1600	5	5
2000	5	5
2500	3	3
2150	1	1
4000	-1	-1
5000	1	1
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1000	4	5.5
1250	4	6
1500	3.5	5
1600	3.5	4.5
2000	3	2
2500	3.5	2
3000	5	2.5
3150	5	2
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226		226—2009 « . »	-
266		-1)	
389-7		389-7—2011 « . . 7. »	-
389-6		389-5—2011 « . . 5. 16 »	- 8
8253-1:2010		82S3-1—2012 . 1. »	-
60581-7		.	
60645-1:2001		.	
61672-1		53186.1—2008 ( 61672-1:2002) « . 1. »	-
12090—80 « . ».			
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- (1) ARLINGER. S.D.. JERLVALL. L.8. Reliability In warble tone sound field audiometry. Scand. Audio!. 1987. 16. pp. 21—27
- (2) MORGAN. O.E.. DIRKS. D.D.. BOWER. O.R. Suggested threshold sound pressure levels for frequencymodulated (warble) tones in the sound field. J. Speech Hear. Disord. 1979. 44. pp. 37—54
- (3) SHAW. E.A.G.. VAILLANCOURT. M M. Transformation of sound pressure level from the free field to the eardrum presented in numerical form. J. Acoust. Soc. Am. 1985. 78. pp. 1120—23
- (4) WALKER. G.. DILLON. H.. BYRNE. D. Sound field audiometry: Recommended stimuli and procedures. Eer Hear. 1984. S.pp. 13—21

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