

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

**Electroacoustics – Measurement of real-ear acoustical performance
characteristics of hearing aids**

**Électroacoustique – Mesure des caractéristiques de performances acoustiques
des appareils de correction auditive sur une oreille réelle**

[IEC 61669:2015/AMD1:2025](https://standards.iteh.ai/catalog/standards/iec/8e2ba5c7-a69b-4426-a638-a223998dd4b1/iec-61669-2015-amd1-2025)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTROACOUSTICS –
MEASUREMENT OF REAL-EAR ACOUSTICAL
PERFORMANCE CHARACTERISTICS OF HEARING AIDS**

AMENDMENT 1

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Amendment 1 to IEC 61669:2015 has been prepared by IEC technical committee 29: Electroacoustics.

The text of this Amendment is based on the following documents:

Draft	Report on voting
29/1179/CDV	29/1194/RVC

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications/.

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- reconfirmed,
- withdrawn, or
- revised.

B.3 Estimating ear canal SPL produced by a hearing aid

Replace the existing Equation (B.4) with the following new equation:

$$L_{pe} = L_{pc} + \left(20 \lg \left| \frac{Z_e}{Z_c} \right| + 20 \lg \left| \frac{Z_H + Z_c}{Z_H + Z_e} \right| \right) \text{ dB} \quad (\text{B.4})$$

Replace the existing Equation (B.5) with the following new equation:

$$L_{pe} = L_{pc} + RECD + 20 \lg \left| \frac{Z_H + Z_c}{Z_H + Z_e} \right| \text{ dB} \quad (\text{B.5})$$

Replace the existing Equation (B.6) with the following new equation:

$$L_{pe} = L_{pc} + RECD \text{ dB} \quad (\text{B.6})$$

B.4 Correcting an HL audiogram obtained with an insert earphone and a standard eartip

Replace the existing Equation (B.7) with the following new equation:

$$PHL = HL + L_{pPt} - L_{pAt} \text{ dB} \quad (\text{B.7})$$

Replace the existing Equation (B.8) with the following new equation:

$$PHL = HL + PECD - AECD \text{ dB} \quad (\text{B.8})$$

B.5 Correcting an HL audiogram obtained with an insert earphone and a custom earmould

Replace the existing Equation (B.9) with the following new equation:

$$PHL = HL + L_{pPm} - L_{pAt} \text{ dB} \quad (\text{B.9})$$

Replace the existing Equation (B.10) with the following new equation:

$$PHL = HL + L_{pPm} - L_{pCt} - AECD \text{ dB} \quad (\text{B.10})$$

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