



**ISO 16702:2001, Workplace air quality --
Determination of total isocyanate groups in air
using 2-(1-methoxyphenyl)piperazine and liquid
chromatography**

ISO TC 146/SC 2/WG 4

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This International Standard gives general guidance for the sampling and analysis of airborne organic isocyanates in workplace air, using the 2-(1-methoxyphenyl) piperazine reagent and liquid chromatography. This International Standard is applicable to the measurement of a wide range of organic compounds containing isocyanate functional groups (NCO), including isocyanate monomers and prepolymers. This International Standard is applicable to the measurement of any product containing free isocyanate groups. This International Standard is applicable to the measurement of time-weighted-average concentrations of organic isocyanates in workplace atmospheres, and for sampling over periods in the range 10 min to 8 h. It is designed for personal monitoring, but may also be used for fixed-location monitoring by suitable modification. This International Standard is applicable to the measurement of airborne organic isocyanates in the concentration range approximately $0,1 \mu\text{g NCO m}^{-3}$ to $140 \mu\text{g NCO m}^{-3}$ for a 15 l sample volume. The qualitative and quantitative detection limits for isocyanate, defined as three times and ten times the standard deviation of six blank determinations, have been found to be typically around $0,001 \mu\text{g NCO}$ and $0,004 \mu\text{g NCO}$ per sample respectively (electrochemical detection). For a 15 l air sample, these values correspond to qualitative and quantitative detection limits of $0,07 \mu\text{g m}^{-3}$ and $0,3 \mu\text{g m}^{-3}$ respectively. This title may contain less than 24 pages of technical content.

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