



**Ośrodek Badań Podstawowych, Projektów i Wdrożeń,
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AB 934

Kapitał zakładowy: 100 000,00 PLN	Sąd Rejonowy dla Wrocławia-Fabrycznej we Wrocławiu, IX Wydział Gospodarczy KRS	
NIP: 8980014132	Numer REGON: 008374467	Numer KRS: 0000074393

SCOPE OF LABORATORY ACTIVITIES

**The tests included in this document meet the requirements of the standard
PN-EN ISO/IEC 17025:2018-02**

Scope of laboratory activities	Version from 23.07.2025 r.	Page/pages: 2/35
Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment – air	Sampling for the assessment of occupational exposure to: - dust factors – inhalable fraction – respirable fraction Dosimetric method	PN-Z-04008-7:2002+Az1:2004
	- metal and their compounds, including – inhalable fraction – respirable fraction - organic compounds, including – inhalable fraction - inorganic compounds, including – inhalable fraction – respirable fraction – thoracic fraction Stationary method Dosimetric method	
	Exposure Index (from calculations)	
	Sampling for the assessment of occupational exposure to: - asbestos - respirable fibres - refractory ceramic fibres - refractory ceramic fibres mixed with other artificial mineral fibres - artificial mineral fibres, except refractory ceramic fibres - respirable fibres - silicon carbide, fibrous - respirable fibres Stationary method Individual method	PN-Z-04008-7:2002 PN-Z-04202-02:1988
Working environment - air - air samples taken on filters	Concentration / Content hydrogen peroxide Range: (0,034 – 9,6) mg/m ³ (0,0120 – 0,288) mg per sample Spectrophotometric method	
	Concentration / Content chromium(VI) compounds - expressed as Cr(VI) Range: (0,000417 – 0,05) mg/m ³ (0,0003 – 0,036) mg per sample Spectrophotometric method	PN-87/Z-04126/03 IB-140 wydanie nr 1 z dnia 25.11.2024 r.
Working environment - air - air samples taken on filters General environment - atmospheric air samples taken on filters Indoors - air samples taken on filters	Concentration / Content highly refined mineral oils excluding cutting fluids - inhalable fraction Range: (0,28 – 22,2) mg/m ³ (0,2 – 8) mg per sample Infrared spectrometry method (IR)	Osha Method 1019 PN-Z-04108-5:2006

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on filters	Concentration / Content glycerol – inhalable fraction Range: (0,834 – 20,8) mg/m ³ (0,6– 7,5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04374:2009
	Concentration / Content 2,2'-oxydiethanol (ditheylene glycol) – inhalable fraction Range: (0,056 – 25,0) mg/m ³ (0,04 – 6,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04493:2018-09
	Concentration / Content Range: - 4,4'-methylenebis(phenylisocyanate) (0,0013 – 1,00) mg/m ³ (0,0003 – 0,015) mg per sample - 2,4-toluene diisocyanate (0,00025 – 0,50) mg/m ³ (0,00006 – 0,0075) mg per sample - 2,6-toluene diisocyanate (0,00025 – 0,50) mg/m ³ (0,00006 – 0,0075) mg per sample - hexane-1,6-diyl diisocyanate (hexamethylene diisocyanate) (0,0013 – 1,00) mg/m ³ (0,0003 – 0,015) mg per sample - 2,2'-methylenediphenyl diisocyanate (0,0013 – 1,00) mg/m ³ (0,0003 – 0,015) mg per sample - 2,4'-methylenediphenyl diisocyanate (0,0013 – 1,00) mg/m ³ (0,0003 – 0,015) mg per sample - 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate (0,001 – 0,080) mg/m ³ (0,0002 – 0,016) mg per sample - 4,4'-dicyclohexylmethane diisocyanate (0,00334 – 0,133) mg/m ³ (0,0002 – 0,008) mg per sample High-performance liquid chromatography method with fluorescence detection (HPLC-FLD)	OSHA Method 5002
	Concentration / Content -toluene diisocyanate - mixture of 2,4- and 2,6-isomers - methylene diphenyl diisocyanate - mixture of isomers (from calculations)	
Working environment - air - air samples taken on filters	Concentration / Content 1,5-naphthalene diisocyanate Range: (0,00334 – 0,400) mg/m ³ (0,0002 – 0,006) mg per sample High-performance liquid chromatography method with fluorescence detection (HPLC-FLD)	OSHA Method PV2046

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on filters	Concentration / Content Cyclohexyl isocyanate Range: (0,001 – 0,080) mg/m ³ (0,0002 – 0,016) mg per sample High-performance liquid chromatography method with fluorescence detection (HPLC-FLD)	Podstawy i Metody Oceny Środowiska Pracy 2020, nr 2(104), s. 79–94
	Concentration / Content Basic Red 9 Range: (0,0018 – 0,045) mg/m ³ (0,00063 – 0,0172) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	Narażenie zawodowe na czynniki rakotwórcze i mutagenne, CIOP 2019, s.112-116
	Concentration / Content thiuram - tetramethylthiuram disulfide - inhalable fraction Range: (0,04 – 1,0) mg/m ³ (0,028 – 0,720) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04480:2016-10
	Concentration / Content phenolphthalein Range: (0,64 – 16,1) mg/m ³ (0,46 – 5,8) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04506:2019-10
	Concentration / Content hydrazine Range: (0,0011 – 0,70) mg/m ³ (0,00083 – 0,525) mg/m ³ (0,000263 – 0,00700) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04523:2020-12
	Concentration / Content benzoic acid Range: (0,0222 – 26,7) mg/m ³ (0,00438 – 5,27) ppm (0,0160 – 0,800) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	Podstawy i Metody Oceny Środowiska Pracy 2023, nr 3(117), s. 137–154
	Concentration / Content resorcinol Range: (3,33 – 733) mg/m ³ (0,200 – 5,5) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04558:2024-09
	Concentration / Content dimethyl phthalate – inhalable fraction Range: (0,14 – 10,3) mg/m ³ (0,05 – 1,5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04531:2021-08

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on filters	Concentration / Content diethyl phthalate – inhalable fraction Range: (0,21 – 11,59) mg/m ³ (0,1 – 2,5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04498:2019-10
	Concentration / Content dibutyl phthalate – inhalable fraction Range: (0,42 – 10,4) mg/m ³ (0,30 – 7,5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04495:2018-09
Working environment - air - air samples taken on filters and sorbent tubes	Concentration / Content diisobutyl phthalate Range: (0,347 – 8,33) mg/m ³ (0,250 – 6,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2024, nr 2(120), s. 117– 129
Working environment - air - air samples taken into sorbent tubes General environment - atmospheric air samples taken into sorbent tubes Indoors - air samples taken into sorbent tubes	Concentration / Content formamide Range: (1,88 – 56,3) mg/m ³ (0,015 – 0,450) mg per sample N-methylformamide Range: (0,27 – 7,2) mg/m ³ (0,0027 – 0,072) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	IB-141 wydanie nr 1 z dnia 06.02.2025 r.
	Concentration / Content 1-ethyl-2-pyrrolidone Range: (2,0 – 800) mg/m ³ (0,020 – 1,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04553:2023-08
	Concentration / Content acrylic acid Range: (0,75 – 300) mg/m ³ (0,25 – 100) ppm (0,015 – 0,450) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04460:2014-09
	Concentration / Content tert-butyl ethyl ether Range: (9,1 – 1840) mg/m ³ (0,091 – 2,3) mg per sample Gas chromatography method with flame-ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2015, nr 2(84), s. 123-139
	Concentration / Content 2-methoxyethanol Range: (0,18 – 7,23) mg/m ³ (0,057 – 2,28) ppm (0,0053 – 0,217) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2010, nr 1(63), s. 169-175

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken into sorbent tubes General environment - atmospheric air samples taken into sorbent tubes Indoors - air samples taken into sorbent tubes	Concentration / Content 1,1-dichloroethane Range: (36,8 – 824) mg/m ³ (0,370 – 8,2) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1003, Issue 3, 15 March 2003
	Concentration / Content 1,2-dichloroethane Range: (0,60 – 20,4) mg/m ³ (0,00700 – 0,245) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2018, nr 2(96), s.133-143
	Concentration / Content 1,3-propane sultone Range: (0,00060 – 0,017) mg/m ³ (0,000216 – 0,0062) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04528:2021-07
Working environment - air - air samples taken on filters	Concentration / Content 2,2-bis(4-hydroxyphenyl)propane (bisphenol-A) – inhalable fraction Range: (0,069 – 6,94) mg/m ³ (0,050 – 5,0) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04382:2009
	Concentration / Content solid paraffin - inhalable fraction Range: (0,056 – 6,94) mg/m ³ (0,040 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04379:2010
Working environment - air - air samples taken on filters General environment - atmospheric air samples taken on filters Indoors - air samples taken on filters	Concentration / Content hydrogen fluoride Range: (0,023 – 24,0) mg/m ³ (0,0165 – 0,72) mg per sample Ion chromatography method with conductometric detection (IC-CD)	NIOSH 7906 Method, Issue 2, 20 May 2014
	Concentration / Content fluorides as F Range: (0,0181 – 4,0) mg/m ³ (0,013 – 2,88) mg per sample Ion chromatography method with conductometric detection (IC-CD)	NIOSH 7906 Method, Issue 2, 20 May 2014 Podstawy i Metody Oceny Środowiska Pracy 2014 nr 3(81), str. 71-87
	Concentration / Content Range: - hydrogen chloride (0,225 – 200) mg/m ³ (0,135 – 6,0) mg per sample - nitric (V) acid (0,0635 – 56,0) mg/m ³ (0,038 – 1,68) mg per sample Ion chromatography method with conductometric detection (IC-CD)	NIOSH 7907 Method, Issue 1, 20 May 2014

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on filters General environment - atmospheric air samples taken on filters Indoors - air samples taken on filters	Concentration / Content phosphoric acid Range: (0,05 – 48,0) mg/m ³ (0,036 – 1,44) mg per sample Ion chromatography method with conductometric detection (IC-CD)	NIOSH 7908 Method, Issue 1, 10 May 2014
	Concentration / Content sulfuric acid (VI) - thoracic fraction Range: (0,0031 – 0,13) mg/m ³ (0,0022 – 0,0480) mg per sample Ion chromatography method with conductometric detection (IC-CD)	Podstawy i Metody Oceny Środowiska Pracy 2017 nr 2(92), str. 5-19
	Concentration/Content ozone Range: (0,0135 – 0,3) mg/m ³ (0,00162 – 0,0360) mg per sample Ion chromatography method with conductometric detection (IC-CD)	OSHA Method 214
	Concentration / Content sulfur dioxide Range: (0,111 – 31,2) mg/m ³ (0,042 – 11,7) ppm (0,020 – 0,468) mg per sample Ion chromatography method with conductometric detection (IC-CD)	OSHA Method 1011
Working environment - air - air samples taken on filters	Chromium metal, Chromium(II) compounds - as Cr(II), Chromium(III) compounds - as Cr(III) (from calculations)	IB-133 wydanie nr 3 z dnia 28.08.2021 r.

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on filters	Concentration / Content Range: - tin and its inorganic compounds, except stannane - as Sn - inhalable fraction (0,0139 – 8,33) mg/m ³ (0,0100 – 6,00) mg per sample - cobalt and its inorganic compounds – as Co (0,00139 – 0,083) mg/m ³ (0,00100 – 0,0600) mg per sample - aluminum trioxide – as Al, - aluminum hydroxide – as Al, - aluminum metal, aluminum powder (unstabilized): – inhalable fraction (0,0694 – 5,56) mg/m ³ (0,050 – 4,00) mg per sample – respirable fraction (0,0631 – 5,05) mg/m ³ (0,050 – 4,00) mg per sample - cadmium and its inorganic compounds - as Cd – inhalable fraction (0,000084 – 0,00986) mg/m ³ (0,000060 – 0,0071) mg per sample - iron oxides – as Fe, iron (III) oxide, iron (II) oxide, triiron tetroxide - respirable fraction (0,0126 - 227) mg/m ³ (0,0100 – 7,50) mg per sample - inhalable fraction (0,0139 - 250) mg/m ³ (0,0100 – 7,50) mg per sample - copper and its inorganic compounds - as Cu (0,0139 – 0,417) mg/m ³ (0,0100 – 0,300) mg per sample - manganese and its inorganic compounds - as Mn – inhalable fraction (0,00417 – 0,417) mg/m ³ (0,00300 – 0,300) mg per sample – respirable fraction (0,00379 – 0,379) mg/m ³ (0,00300 – 0,300) mg per sample Microwave plasma atomic emission spectrometry method (MP-AES)	IB-131 wydanie nr 4 z dnia 08.03.2024 r.

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on filters	Concentration / Content Range: - zinc oxide as Zn – inhalable fraction (0,0139 – 250) mg/m ³ (0,0100 – 7,50) mg per sample - silver – inhalable fraction (0,00420 – 0,104) mg/m ³ (0,00300 – 0,0750) mg per sample - chromium metal and its compounds (chromium (II), chromium (III), chromium (VI)) – as Cr (0,0139 – 1,04) mg/m ³ (0,010 – 0,750) mg per sample - sodium hydroxide (0,0193 – 31,9) mg/m ³ (0,0139 – 0,956) mg per sample - potassium hydroxide (0,0159 – 26,3) mg/m ³ (0,0115 – 0,789) mg per sample - calcium oxide – inhalable fraction (0,0582 – 279) mg/m ³ (0,0419 – 8,39) mg per sample – respirable fraction (0,0529 – 254) mg/m ³ (0,0419 – 8,39) mg per sample - calcium hydroxide – inhalable fraction (0,077 – 369) mg/m ³ (0,0555 – 11,09) mg per sample – respirable fraction (0,070 – 336) mg/m ³ (0,0555 – 11,09) mg per sample - calcium carbonate – inhalable fraction (0,104 – 20,8) mg/m ³ (0,075 – 14,98) mg per sample - magnesium oxide – inhalable fraction (0,069 – 20,70) mg/m ³ (0,050 – 14,92) mg per sample - zinc dichloride - inhalable fraction (0,041 – 52,10) mg/m ³ (0,0292 – 1,563) mg per sample - zirconium and its compounds as Zr (0,140-7,50) mg per sample (0,194-250) mg/dm ³ - titanium and its compounds as Ti (0,400-15,0) mg per sample (0,556-500) mg/dm ³ Microwave plasma atomic emission spectrometry method (MP-AES)	IB-131 wydanie nr 4 z dnia 08.03.2024 r.

Scope of laboratory activities	Version from 23.07.2025 r.	Page/pages: 10/35
Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on filters	Concentration/ Content Range: - molybdenum and its compounds as Mo (0,140-7,5) mg per sample (0,194-250) mg/dm ³ - antimony and its inorganic compounds except stibane as Sb (0,030-0,750) mg per sample (0,0417-1,042) mg/dm ³ - tungsten – inhalable fraction - tungsten insoluble compounds as W (0,194 – 10,4) mg/m ³ (0,140 – 7,50) mg per sample - silver soluble compounds as Ag (0,000694 – 0,0208) mg/m ³ (0,00050 – 0,0150) mg per sample - barium soluble compounds as Ba (0,0382 – 1,042) mg/m ³ (0,0275 – 0,750) mg per sample - nickel compounds, expressed as Ni -inhalable fraction (0,00083 – 0,556) mg/m ³ (0,0006 – 0,400) mg per sample -respirable fraction (0,00076 – 0,505) mg/m ³ (0,0006 – 0,400) mg per sample - nickel metal, expressed as Ni (0,00083 – 0,555) mg/m ³ (0,0006 – 0,400) mg per sample - lithium hydride – inhalable fraction (0,00042 – 0,500) mg/m ³ (0,00030 – 0,015) mg per sample Microwave plasma atomic emission spectrometry method (MP-AES)	IB-131 wydanie nr 4 z dnia 08.03.2024 r.
Working environment - air	Concentration of dust harmful to health inhalable fraction - petroleum asphalt - titanium dioxide - apatites and phosphates - Portland cement - natural graphite - synthetic graphite - kaolin - amorphous and synthetic silica - wood dust - flour dust - dusts not classified due to toxicity - organic dusts of animal and plant origin, except wood dust and flour - calcium sulphate (gypsum) - technical carbon black - artificial mineral fibres, except refractory ceramic fibres - talc - coal (hard, brown) - calcium magnesium carbonate (dolomite) - silicon carbide, non-fibrous - silicon carbide, fibrous Range: (0,15 – 20,8) mg/m ³ Gravimetric method	PN-Z-04507:2022-05 PN-Z-04507:2022-05/Apl:2022-08

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air	Concentration of dust harmful to health respirable fraction - apatites and phosphates - Portland cement - natural graphite - amorphous silica - and synthetic silica - organic dusts of animal and plant origin, except wood dust and flour - talc - coal (hard, brown) Range: (0,095 – 6,31) mg/m ³ Gravimetric method	PN-Z-04508:2022-05 PN-Z-04508:2022-05/Ap1:2022-08
Working environment - air - air samples taken on filters	Concentration / Content crystalline silica (quartz, cristobalite) - respirable fraction Range: (0,0056 – 0,88) mg/m ³ (0,005 – 0,6) mg per sample Fourier Transform Infrared Spectrometry Method (FT-IR)	Podstawy i Metody Oceny Środowiska Pracy 2012, nr 4(74) s. 117-130
Working environment - air - air samples taken on filters and on the sorbent tubes	Concentration / Content 2-phenoxyethanol Range: (11 – 1680) mg/m ³ (0,2 – 4,2) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2003, nr 4(38), s. 65-70

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on filters and into the sorbent tubes General environment - atmospheric air samples taken on filters and into the sorbent tubes Indoors - air samples taken on filters and into the sorbent tubes	Concentration / Content polycyclic aromatic hydrocarbons: Range: - anthracene (0,00019 – 0,0038) mg/m³ (0,000075 – 0,0015) mg per sample - benzo(a)anthracene (0,000015 – 0,0038) mg/m³ (0,000006 – 0,0015) mg per sample - chrysene (0,00019 – 0,0038) mg/m³ (0,000075 – 0,0015) mg per sample - benzo(b)fluoranthene (0,000015 – 0,0038) mg/m³ (0,000006 – 0,0015) mg per sample - benzo(k)fluoranthene (0,000015 – 0,0038) mg/m³ (0,000006 – 0,0015) mg per sample - benzo(a)pyrene (0,000015 – 0,0038) mg/m³ (0,000006 – 0,0015) mg per sample - dibenzo(a,h)anthracene (0,000015 – 0,0038) mg/m³ (0,000006 – 0,0015) mg per sample - benzo(g,h,i)perylene (0,00019 – 0,0038) mg/m³ (0,000075 – 0,0015) mg per sample - indeno(1,2,3,-c,d)pyrene (0,000015 – 0,0038) mg/m³ (0,000006 – 0,0015) mg per sample High-performance liquid chromatography method with fluorescence and spectrophotometric detection (HPLC-FLD/UV)	PN-Z-04240-5:2006 z wyłączeniem pkt. 1, 5.6, 5.7, 5.8 IB-76 wydanie nr 3 z dnia 15.07.2013 r.
Working environment - air - air samples taken on filters	Exposure index as the sum of the products of concentrations and carcinogenicity coefficients of 9 carcinogenic PAHs (from calculations) Concentration / Content propane-1,2-diol – vapors and inhalable fraction Range: (5,0 – 200) mg/m³ (0,90 – 36,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2017, nr 2(92), s. 173-188
Working environment - air - air samples taken into the absorbing solution	Concentration / Content chlorine Range: (0,033 – 6,67) mg/m³ (0,0005 – 0,05) mg per sample Spectrophotometric method	PN-Z-04037-03:1975

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken into the absorbing solution	Concentration / Content chloric acid (VII) Range: (0,31 – 100) mg/m ³ (0,0125 – 1,25) mg per sample Spectrophotometric method	Podstawy i Metody Oceny Środowiska Pracy 1997, nr 17, str. 88 - 91
Working environment - air - air samples taken into the absorbing solution	Concentration / Content acrylamide Range: (0,0055 – 0,171) mg/m ³ (0,000650 – 0,0206) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04486:2017-10
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content nitrogen oxide Range: (0,12 – 5,0) mg/m ³ (0,096 – 4,0) ppm (0,0010 – 0,045) mg per sample Ion chromatography method with conductometric detection (IC-CD)	OSHA Method 190
	Concentration / Content nitrogen dioxide Range: (0,064 – 14,0) mg/m ³ (0,011 – 7,31) ppm (0,0019 – 0,0420) mg per sample Ion chromatography method with conductometric detection (IC-CD)	OSHA Method 182
	Concentration / Content hydrogen sulphide Range: (0,65 – 74,6) mg/m ³ (0,026 – 0,56) mg per sample Ion chromatography method with conductometric detection (IC-CD)	NIOSH 6013 Method, Issue 1, 15 August 1994
	Concentration / Content formic acid Range: (0,334 – 106) mg/m ³ (0,0080 – 0,320) mg per sample Ion chromatography method with conductometric detection (IC-CD)	IB-135 wydanie nr 1 z dnia 23.02.2022r.
	Concentration / Content acetic acid Range: (1,88 – 383) mg/m ³ (0,75 – 153) ppm (0,045 – 1,15) mg per sample Ion chromatography method with conductometric detection (IC-CD)	
	Concentration / Content propionic acid Range: (2,5 – 383) mg/m ³ (0,045 – 1,15) mg per sample Ion chromatography method with conductometric detection (IC-CD)	
	Concentration / Content hydrogen cyanide as CN Range: (0,070 – 75) mg/m ³ (0,062 – 66,7) ppm (0,0050 – 0,150) mg per sample Ion chromatography method with ampermetric detection (IC-AD)	NIOSH 6017 Method, Issue 1, 15 March 2003

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Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content Range: - triethylamine (0,267 – 48) mg/m ³ (0,016 – 0,360) mg per sample - trimethylamine (0,417 – 88,0) mg/m ³ (0,025 – 0,66) mg per sample - diethylamine Range: (0,667 – 166) mg/m ³ (0,040 – 1,25) mg per sample Ion chromatography method with conductometric detection (IC-CD)	IB -136 wydanie nr 1 z dnia 28.05.2022 r.
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content Range: - dimethylamine (0,267 – 56,0) mg/m ³ (0,016 – 0,420) mg per sample - butylamine (0,50 – 200) mg/m ³ (0,030 – 1,0) mg per sample - isopropylamine (0,417 – 100) mg/m ³ (0,025 – 0,750) mg per sample - ethylamine (0,667 – 166) mg/m ³ (0,040 – 1,25) mg per sample - methylamine (0,50 – 96,0) mg/m ³ (0,030 – 0,720) mg per sample Ion chromatography method with conductometric detection (IC-CD)	IB -136 wydanie nr 1 z dnia 28.05.2022 r.
	Concentration / Content ammonia Range: (1,11 – 700) mg/m ³ (0,080 – 2,1) mg per sample Ion chromatography method with conductometric detection (IC-CD)	NIOSH 6016 Method, Issue 1, 15 May 1996
	Concentration/ Content iodine Range: (0,028 – 12,0) mg/m ³ (0,0050 – 0,180) mg per sample Ion chromatography method with conductometric detection (IC-CD)	NIOSH Method 6005, Issue 2, 15 August 1994
	Concentration/ Content 2-methoxypropyl acetate Range: (10,0 – 400) mg/m ³ (0,100 – 2,00) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method 99
	Concentration/ Content ethyl 2-cyanoacrylate Range: (0,0417 – 33,3) mg/m ³ (0,001 – 0,050) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	OSHA Method 55

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on filters General environment - atmospheric air samples taken on filters Indoors - air samples taken on filters	Concentration / Content hydrogen bromide Range: (0,667 – 13,3) mg/m ³ (0,020 – 0,400) mg per sample Ion chromatography method with conductometric detection (IC-CD)	NIOSH 7907 Method, Issue 1, 20 May 2014
	Concentration / Content ammonium amidosulfate (VI) – inhalable fraction Range: (0,333 – 27,8) mg/m ³ (0,240 – 20,0) mg per sample Ion chromatography method with conductometric detection (IC-CD)	OSHA ID-188
	Concentration / Content ammonium chloride – vapors and inhalable fraction Range: (0,153 – 480) mg/m ³ (0,110 – 14,4) mg per sample Ion chromatography method with conductometric detection (IC-CD)	
	Concentration / Content potassium bromate (V) – inhalable fraction Range: (0,0417 – 1,19) mg/m ³ (0,030 – 0,860) mg per sample Ion chromatography method with conductometric detection (IC-CD)	Narażenie zawodowe na czynniki rakotwórcze i mutagenne, CIOP 2019, s. 117-122
Working environment - air - air samples taken into sorbent tubes	Concentration / Content trimethylbenzene - mixtures of isomers (1,2,3-, 1,2,4- i 1,3,5-) Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
	Concentration / Content ethyltoluene (mixture of isomers) Range: (0,17 – 333,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	IB-24 wydanie nr 9 z dnia 29.01.2016 r.

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on sorbent tubes	Concentration / Content cumene Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
	Concentration / Content propan-2-ol Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
Working environment - air - air samples taken on filters	Concentration/ Content adipic acid - inhalable fraction Range: (0,139 – 253,0) mg/m ³ (0,100 – 7,6) mg per sample Ion chromatography method with conductometric detection (IC-CD)	IB-138 wydanie nr 01 z dnia 21.11.2022 r.
Working environment - air - air samples taken on sorbent tubes	Concentration / Content butan-2-one Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH METHOD:2555, ISSUE 1, 15 March 2003
	Concentration / Content 4-methylpentan-2-one Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04372:2009
	Concentration / Content 2-butoxyethyl acetate Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
	Concentration / Content dichloromethane Range: (1,7 – 868,0) mg/m ³ (0,48 - 246) ppm (0,010 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04325:2006
	Concentration / Content ethylene glycol Range: (1,3 – 1667,0) mg/m ³ (0,05 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 1997, nr 17, str. 55-59
	Concentration / Content acetonitrile Range: (0,06 – 1667,0) mg/m ³ (0,006 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04244-2:1996
	Concentration / Content 2-(2-butoxyethoxy)ethanol Range: (1,67 – 1667,0) mg/m ³ (0,05 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04399:2011

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on sorbent tubes	Concentration / Content phenylmethanol Range: (0,42 – 417,0) mg/m ³ (0,01 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method PV2009
Working environment - air - air samples taken on filters	Concentration / Content benzyl butyl phthalate Range: (0,02 – 39,0) mg/m ³ (0,003 – 7,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04409:2009
	Concentration / Content bis(2-ethylhexyl) phthalate Range: (0,01 – 167,0) mg/m ³ (0,003 – 6,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04208-05:1989
Working environment - air - air samples taken on sorbent tubes	Concentration / Content cyclohexanone Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
	Concentration / Content vinyl toluene (mixture of isomers) Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04319:2001
	Concentration / Content 1-methoxypropan-2-ol Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
	Concentration / Content styrene Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
	Concentration / Content diethyl ether Range: (0,28 – 1667,0) mg/m ³ (0,002 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04158-02:1986
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes	Concentration / Content chloroform Range: (0,17 – 167,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1003 Issue 3, 15 March 2003
Indoors - air samples taken into the sorbent tubes	Concentration / Content propyl acetate Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1450 Issue 3, 15 March 2003

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content ethylbenzene Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
Working environment - air - air samples taken on sorbent tubes	Concentration / Content trichloroethene Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1022, Issue 2, 15 August 1994
	Concentration / Content tetrachloroethene Range: (0,17 – 1667,0) mg/m ³ (0,025 – 242) ppm (0,006 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method 1001
	Concentration / Content tetrahydrofuran Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1609 Issue 2, 15 August 1994
	Concentration / Content phenol Range: (0,13 – 1667,0) mg/m ³ (0,003 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 2546, Issue 1, 15 August 1994
	Concentration / Content turpentine Range: (1 – 1667,0) mg/m ³ (0,01 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1551, Issue 2, 15 August 1994
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content 1-methyl-2-pyrrolidone Range: (0,695-1666) mg/m ³ (0,17 – 404) ppm (0,050 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1302, Issue 1, 15 January 1998
	Concentration / Content pentane Range: (0,28 – 5333,0) mg/m ³ (0,005 – 8,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04318:2005
	Concentration / Content hexane Range: (0,17 – 167,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
	Concentration / Content heptane Range: (0,33 – 3333,0) mg/m ³ (0,01 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04138-02:1984

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on sorbent tubes	Concentration / Content cyclohexanol Range: (0,17 – 167,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1402, Issue 2,15 August 1994
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content 2-furylmethanol Range: (0,17 – 3333,0) mg/m ³ (0,005 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04214-02:1990
Working environment - air - air samples taken on sorbent tubes	Concentration / Content 2-methoxy-1-methylethyl acetate Range: (0,17 – 3333,0) mg/m ³ (0,005 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04119-10:2008
	Concentration / Content vinyl acetate Range: (0,17 – 467,0) mg/m ³ (0,005 – 1,4) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content methylcyclohexane Range: (0,17 – 6667,0) mg/m ³ (0,005 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2011, nr 1(67), s.35-44
	Concentration / Content cyclohexane Range: (5,5 – 3333,0) mg/m ³ (0,1 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2007, nr 1(51), s.141-147
Working environment - air - air samples taken on sorbent tubes	Concentration / Content propan-1-ol Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04224-3:2003
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content chloroethene (vinyl chloride) Range: (0,14 – 27,8) mg/m ³ (0,052 – 10,4) ppm (0,001 – 0,1) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1007 Issue 2, 15 August 1994
	Concentration / Content epoxyethane Range: (0,05 – 50) mg/m ³ (0,027 – 27,3) ppm (0,0005 – 0,5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04300:2002
	Concentration / Content buta-1,3-diene Range: (0,080 – 20,0) mg/m ³ (0,036 – 8,89) ppm (0,002 – 0,5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1024 Issue 2, 15 August 1994

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content 1-chloro-2,3-epoxypropane Range: (0,033 – 167,0) mg/m ³ (0,001 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1010 Issue 2, 15 August 1994
	Concentration / Content acrylonitrile Range: (0,05 – 1667,0) mg/m ³ (0,023 - 755) ppm (0,001 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04556:2024-09
	Concentration / Content 4-Hydroxy-4-methylpentan-2-one Range: (0,50 – 1000,0) mg/m ³ (0,005 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04368:2008
Working environment - air - air samples taken on sorbent tubes	Concentration / Content gasoline for varnishes Range: (1,67 – 3333,0) mg/m ³ (0,05 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-81/Z-04134/03
	Concentration/ Content kerosene Range: (2,5 – 3333,0) mg/m ³ (0,05 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1550 Issue 2, 15 August 1994
	Concentration / Content extraction gasoline Range: (0,17 – 3333,0) mg/m ³ (0,005 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-81/Z-04134/02
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content benzene Range: (0,017 – 16,7) mg/m ³ (0,052 - 5,14) ppm (0,0005 – 0,5) mg per sample Gas chromatography method z detekcją płomieniowo-jonizacyjną (GC-FID)	NIOSH Method 1501 Issue 3, 15 March 2003

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on sorbent tubes	Concentration / Content organic compounds: Range: - ethanol (0,28 – 3333,0) mg/m ³ (0,005 – 10,0) mg per sample - butan-1-ol (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample - 2-methylpropan-1-ol (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample - 2-ethoxyethanol (0,17 – 100,0) mg/m ³ (0,045 – 26,7) ppm (0,005 – 3,0) mg per sample - 2-butoxyethanol (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-89/Z-04023/02
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content organic compounds: Range: - toluene (0,17 – 3333,0) mg/m ³ (0,005 – 10,0) mg per sample - xylene - a mixture of isomers: 1,2-; 1,3-; 1,4- (0,17 – 3333,0) mg/m ³ (0,005 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1501 Issue 3, 15 March 2003
	Concentration / Content organic compounds: Range: - n-butyl acetate (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample - 2-ethoxyethyl acetate (0,17 – 167,0) mg/m ³ (0,031 – 30,4) ppm (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1450 Issue 3, 15 March 2003
	Concentration / Content organic compounds: Range: - ethyl acetate (0,17 – 1667,0) mg/m ³ (0,046 – 455) ppm (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1457 Issue 1, 15 August 1994

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content organic compounds: Range: - acetone (0,71 – 3333,0) mg/m ³ (0,005 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1300 Issue 2, 15 August 1994
Working environment - air - air samples taken on sorbent tubes	Concentration / Content (2-methoxymethylethoxy)-propanol -mixtures of isomers: 1-(2-methoxy-1-methylethoxy)propan-2-ol, 1-(2-methoxy-2-methylethoxy)propan-2-ol, 2-(2-methoxy-1-methylethoxy)propan-1-ol Range: (1,83 – 3333,0) mg/m ³ (0,055 – 10,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04346:2006
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content diphenyl ether Range: (0,23 – 333,0 mg/m ³ (0,032 – 47,0) ppm (0,007 – 1,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04247-2:1996
	Concentration / Content naphthalene Range: (1 – 320) mg/m ³ (0,04 – 1,6) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04098-3:2005
	Concentration / Content aniline Range: (0,1 – 32) mg/m ³ (0,004 – 0,16) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH METHOD 2002, Issue 2, 15 August 1994
Working environment - air - air samples taken on sorbent tubes	Concentration / Content isoprene Range: (0,17 – 1000) mg/m ³ (0,060 – 353) ppm (0,0050 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04271:2000
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content methanol Range: (2,0 – 2000) mg/m ³ (0,010 – 10) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 2014, nr 3(81), s. 89-101
Working environment - air - air samples taken on sorbent tubes	Concentration / Content cyclohexylamine Range: (0,80 – 1667) mg/m ³ (0,020 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	Podstawy i Metody Oceny Środowiska Pracy 1997, nr 17, s. 31-35
	Concentration / Content methyl acrylate Range: (0,83 – 200) mg/m ³ (0,010 – 0,60) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method 92

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on sorbent tubes	Concentration / Content ethyl acrylate Range: (0,83 – 200) mg/m ³ (0,010 – 0,60) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method 92
	Concentration / Content butyl acrylate Range: (0,83 – 200) mg/m ³ (0,010 – 0,60) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method 92
	Concentration / Content 2-ethylhexyl acrylate Range: (1,67 – 400) mg/m ³ (0,020 – 1,2) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method 92
	Concentration / Content methyl methacrylate Range: (1,67 – 1000) mg/m ³ (0,020 – 3,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method 94
	Concentration / Content butyl methacrylate Range: (1,67 – 1000) mg/m ³ (0,020 – 3,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method 94
	Concentration / Content methyl acetate Range: (0,5 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1458, Issue 2, 15 August 1994
	Concentration / Content isobutyl acetate Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04119-11:2008+Ap1:2011
	Concentration / Content isopropyl acetate Range: (0,17 – 1667,0) mg/m ³ (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04119-7:2006
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content n-octane Range: (10 – 3333) mg/m ³ (0,3 – 10) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1500

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken on sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content chlorobenzene Range: (1,67 – 1667) mg/m ³ (0,05 – 5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04022-3:2001
	Concentration / Content N,N-dimethylformamide Range: (0,5 – 1667) mg/m ³ (0,16 - 548) ppm (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	OSHA Method 66
	Concentration / Content dimethoxymethane Range: (14 – 6667) mg/m ³ (0,1 – 10) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04289:2001
	Concentration / Content heptane-2-one Range: (2,8 – 1667) mg/m ³ (0,05 – 5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04344-3:2008
	Concentration / Content 2-methylpropan-2-ol Range: (4,2 – 1667) mg/m ³ (0,05 – 5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04155-5:1996
Working environment - air - air samples taken into sorbent tubes	Concentration / Content 3a,4,7,7a-tetrahydro-4,7-methaneindene (dicyclopentadiene) Range: (0,42 – 416) mg/m ³ (0,005 – 5) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-Z-04393:2009
	Content octanu isopentyl Range: (20-3333) mg/m ³ (0,200-5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH Method 1450, Issue 3, 15 March 2003
	Concentration / Content butan-2-ol Range: (25 – 2000) mg/m ³ (0,250 – 6,00) mg per sample Gas chromatography method with flame ionization detection(GC-FID)	NIOSH Method 1405, Issue 1, 15 March 2003
	Concentration / Content glutaraldehyde Range: (0,0017 – 20) mg/m ³ (0,0001 – 0,1) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04290:2002

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment - air - air samples taken into sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration / Content formaldehyde Range: (0,0017 – 20) mg/m ³ (0,0001 – 0,1) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	Podstawy i Metody Oceny Środowiska Pracy 1999, nr 22, s. 96-100
	Concentration / Content acetaldehyde Range: (0,03 – 62,5) mg/m ³ (0,0001 – 0,1) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	NIOSH METHOD 2018, Issue 2, 15 March 2003
Working environment - air - air samples taken into sorbent tubes	Concentration / Content acrylaldehyde Range: (0,0017 – 16) mg/m ³ (0,00073 - 6,9) ppm (0,0001 – 0,08) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04045-16:2010
	Concentration / Content: hydroquinone Range: (0,050-16,6) mg/m ³ (0,001-0,050) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	OSHA PV2094
Working environment - air - air samples collected in bags	Concentration / Content: Range: - propane (150-3600) mg/m ³ - butane (150-5950) mg/m ³ Gas chromatography method with flame ionization detection (GC-FID)	IB-101 wyd. 2 z dnia 14.04.2021 r.
Working environment - air - air samples taken into sorbent tubes General environment - atmospheric air samples taken into the sorbent tubes Indoors - air samples taken into the sorbent tubes	Concentration/ Content: 2-aminoethanol Range: (0,2-40) mg/dm ³ (0,002-0,060) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	OSHA PV2111
	Concentration / Content: 2,2'-iminodiethanol Range: (0,90-18,0) mg/m ³ (0,009-0,180) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	OSHA PV2018
	Concentration / Content: Range: - ethylenediamine (2-266) mg/m ³ (0,020-0,400) mg per sample - 2,2'-iminobis(ethylamine) (0,400-53,3) mg/m ³ (0,004-0,080) mg per sample - N,N'-bis(2-aminoethyl)ethylenediamine (0,100-13,3) mg/m ³ (0,001-0,020) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	OSHA 60

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Indoors - air	Sampling to determine the concentration of: - organic substances - inorganic substances	PN-EN ISO 16000-1:2006 PN-EN ISO 16000-2:2008 IB-143 wydanie nr 1 z dnia 27.03.2025 r.
Indoors – air Indoors – air samples taken into sorbent tubes	Concentration / Content formaldehyde Range: (0,0167 – 3,33) µg/m ³ (0,0001 – 0,100) mg per sample acetaldehyde (0,0167 – 3,33) µg/m ³ (0,0001 – 0,100) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	ISO 16000-3:2022 IB-81 wydanie nr 7 z dnia 15.03.2024 r.
Rooms intended for the stay of people – air – air samples taken into sorbent tubes	Sampling for formaldehyde concentration determination	IB-81 wydanie nr 7 z dnia 15.03.2024 r.
	Concentration / Content formaldehyde Range: (0,2 – 200) µg/m ³ (0,1 – 100) µg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	
	Sampling to determine the concentration of organic compounds Concentration / Content: Range - benzene (1,0 – 4000) µg/m ³ (0,5 – 2000) µg per sample - toluene (10,0 – 4000) µg/m ³ (5,0 – 2000) µg per sample - xylene (10,0 – 4000) µg/m ³ (5,0 – 2000) µg per sample - ethylbenzene (10,0 – 4000) µg/m ³ (5,0 – 2000) µg per sample - ethyl acetate (10,0 – 4000) µg/m ³ (5,0 – 2000) µg per sample - butyl acetate (10,0 – 4000) µg/m ³ (5,0 – 2000) µg per sample - cyclohexanone (4,0 – 4000) µg/m ³ (2,0 – 2000) µg per sample - butan-1-ol (10,0 – 4000) µg/m ³ (5,0 – 2000) µg per sample - styrene (2,0 – 4000) µg/m ³ (1,0 – 2000) µg per sample - ethylene glycol (100,0 – 2300,0) µg/m ³ (50,0 – 1150) µg per sample Gas chromatography method with flame ionization detection (GC-FID)	IB-109 wydanie nr 4 z dnia 15.03.2024 r.

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Underground water	Taking samples for chemical and physical tests Temperature of water and sampled water Range: (1,0 – 60,0) °C	PN-ISO 5667-11:2017-10 IB-34 wydanie nr 2 z dnia 23.03.2011 r.
Waste water	Taking samples for chemical and physical tests Temperature of water and sampled water Range: (1,0 – 60,0) °C	PN-ISO 5667-10:1997 z wyłączeniem pkt. 5.3.2 IB-34 wydanie nr 2 z dnia 23.03.2011 r. IB-122 wydanie nr 1 z dnia 26.01.2018 r.
Water for human consumption	Taking samples for chemical and physical tests Temperature of water and sampled water Range: (1,0 – 60,0) °C	PN-ISO 5667-5:2017-10 IB-34 wydanie nr 2 z dnia 23.03.2011 r.
	Taking samples for microbiological testing	PN-EN ISO 19458:2007
Rainwater and meltwater	Sampling for physical and chemical tests	PN-ISO 5667-10:2021-11
	Manual method	

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Research subject/product	Type of activity/characteristics studied/method	Reference documents	
Soil	Taking samples for chemical and physical tests	PN ISO 10381-4:2007	
Water, Waste water	Total suspended solids Range: (5,0 – 2000) mg/l Weight method	PN-EN 872:2007+Ap1:2007	
	Concentration free chlorine, total chlorine Range: (0,05 – 2,0) mg/l Spectrophotometric method	PN-EN ISO 7393-2:2018-04	
	pH Range: (2,0 – 11,0) Potentiometric method	PN-EN ISO 10523:2012	
Water, Waste water	Mineral Oil Index Range: (0,15 – 30) mg/l Gas chromatography method with flame ionization detection (GC-FID)	PN-EN ISO 9377-2:2003	
Water for human consumption	Concentration free chlorine Range: (0,05 – 2,0) mg/l Spectrophotometric method	PN-EN ISO 7393-2:2018-04	
Water	Electrical conductivity Range: (10 – 3000) μ S/cm Conductometric method	PN-EN 27888:1999	
Sewage sludge	pH Range: 2 – 12 Potentiometric method	PN-EN 12176:2004	
	Dry residue (dry mass) Range: (1,0 - 100) % Weight method	PN-EN 12880:2004	
Soil	pH Range: 2,0 – 11,0 Potentiometric method	PN-ISO 10390:1997	
Working environment – air	Concentration carbon monoxide Range: (2,3 – 187) mg/m ³ (2,0-161) ppm Electrochemical method	IB-129 wydanie nr 2 z dnia 14.02.2024 r.	
	Concentration carbon dioxide Range: (695 – 73290) mg/m ³ Electrochemical method		
Working environment – cold microclimate	Air temperature Range: (-30 – 15) °C Blackened Ball Temperature Range: (-20 – 15) °C Air humidity Range: (10 – 95) % Air speed Range: (0,15 – 5) m/s Direct measurement method	PN-EN ISO 11079:2008	
	Index t_{wc} Index $IREQ_{min}$ Index $IREQ_{neutral}$ (from calculations)		
Working environment – moderate microclimate	Air temperature Range: (5 – 50) °C Blackened Ball Temperature Range: (5 – 50) °C Air humidity Range: (10 – 95) % Air speed Range: (0,15 – 5) m/s Direct measurement method	PN-EN ISO 7730:2006 PN-EN ISO 7730:2006/Ap2:2016-04	

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Research subject/product	Type of activity/characteristics studied/method	Reference documents	
	Index PMV Index PPD (from calculations)		
Working environment – hot microclimate	Air temperature Range: (10 – 80) °C Natural humid temperature Range: (5 – 50) °C Blackened Ball Temperature Range: (10 – 80) °C Direct measurement method	PN-EN ISO 7243:2018-01 PN-EN ISO 7243:2018-01/Ap2:2020-04	
	Index WBGT (from calculations)		
Working environment – electric lighting in interiors	Illumination intensity Range: (5 – 10000) lx Direct measurement method	IB-62 wydanie nr 2 z dnia 03.04.2015 r.	
	Illumination uniformity (from calculations)		
Working environment – vibrations acting on the human body through the upper limbs	Effective frequency-weighted vibration acceleration Range: (0,2 – 500) m/s ² Direct measurement method	PN-EN ISO 5349-1:2004 PN-EN ISO 5349-2:2004 PN-EN ISO 5349-2:2004/A1:2015-11	
	Daily exposure, expressed as an energy equivalent form for 8 hours of exposure to the vector sum of effective, frequency-adjusted vibration accelerations, determined for three directional components (ahwx, ahwy, ahwz) Exposure lasting 30 minutes or less, expressed as a vector sum of effective, frequency-weighted vibration accelerations, determined for three directional components (ahwx, ahwy, ahwz) (from calculations)		
Working environment – vibrations with a general effect on the human body	Effective frequency-weighted vibration acceleration Range: (0,03 – 120) m/s ² Direct measurement method	PN-EN 14253+A1:2011	
Working environment – vibrations with a general effect on the human body	Daily exposure, expressed in the form of the energy-equivalent for 8 hours of operation of the effective, frequency-adjusted vibration acceleration, dominant among the vibration accelerations, determined for three directional components, taking into account the appropriate coefficients (1.4awx, 1.4awy, awz) Exposure lasting 30 minutes or less, expressed in the form of the effective, frequency-weighted vibration acceleration, dominant among the vibration accelerations, determined for three directional components, taking into account the appropriate coefficients (1.4awx, 1.4awy, awz) (from calculations)		

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Working environment – noise	Equivalent sound level A Maximum sound level A Range: (22,0 – 136,0) dB Peak sound level C Range: (22,0 – 139,0) dB Direct measurement method	PN-N-01307:1994 PN-EN ISO 9612:2011 z wyłączeniem metody obejmującej strategię 2 i 3 - punkty 10 i 11
	Noise exposure level related to: - 8-hour daily working time - average weekly working time (from calculations)	
	Equivalent sound level A Maximum sound level A Range: (55– 138) dB Peak sound level C Range: (55 – 143) dB Direct measurement method	PN-N-01307:1994 PN-EN ISO 9612:2011 strategia nr 3
	Noise exposure level related to: - 8-hour daily working time - average weekly working time (from calculations)	
Working environment – ultrasonic noise	Equivalent sound pressure levels in the one-third octave bands with center frequencies from 10 kHz to 40 kHz Maximum sound pressure levels in the one-third octave bands with center frequencies from 10 kHz to 40 kHz Range: (59 – 160) dB Direct measurement method	PN-Z-01339:2020-12
	Equivalent sound pressure levels in third octave bands with center frequencies from 10 kHz to 40 kHz related to: - 8 - hrs of daily working time - average weekly working time (from calculations)	
Machines and devices - noise	Equivalent sound level A Range: (24 – 136) dB Direct measurement method	PN-EN ISO 3744:2011 z wyłączeniem pkt. 8.3 PN-EN ISO 3746:2011 z wyłączeniem pkt. 8.4 PN-EN ISO 3746:2011/Ap1:2017-09
	Sound power level (from calculations)	
General environment – noise from roads, railways, tram lines	Equivalent sound level A Exposure sound level A Range: (22,0 – 136,0) dB Direct measurement method	Załącznik nr 3 do Rozporządzenia Ministra Środowiska z dnia 16.06.2011 r. (Dz.U. 2011 nr 140 poz. 824) (Dz.U. 2011 nr 288, poz. 1697) z wyłączeniem punktu H
	Equivalent sound level A for reference time T expressed by L_{AeqD} and L_{AeqN} indexes (from calculations)	
General environment – noise from installations, devices and industrial plants	Equivalent sound level A Range: (24 – 136) dB Direct measurement method	Załącznik Nr 7 do Rozporządzenia Ministra Klimatu i Środowiska z dnia 07.09.2021 r. (t.j. Dz.U. 2023, poz. 1706) z wyłączeniem punktu F
	Equivalent sound level A for reference time T expressed by L_{AeqD} and L_{AeqN} indexes (from calculations)	
Rooms in residential, collective residence and public utility buildings – noise	Equivalent sound level A Maximum sound level A Range: (24 – 136) dB Direct measurement method	PN-87/B-02156

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Waste gases - samples of waste gases collected on sorbent tubes	Content związków organicznych: Range: - acetone (0,005 – 10,0) mg per sample - butan-2-one (0,005 – 5,0) mg per sample - methyl isobutyl ketone (0,005 – 5,0) mg per sample - ethyl acetate (0,005 – 5,0) mg per sample - butyl acetate (0,005 – 5,0) mg per sample - ethanol (0,005 – 10,0) mg per sample - butanol (0,005 – 5,0) mg per sample - methylpropanol (0,005 – 5,0) mg per sample - ethoxyethyl acetate (0,005 – 5,0) mg per sample - methoxypropyl acetate (2-methoxy-1-methylethyl acetate) (0,005 – 10,0) mg per sample - ethoxyethanol (0,005 – 3,0) mg per sample - butoxyethanol (0,005 – 5,0) mg per sample - methoxypropanol (0,005 – 5,0) mg per sample - epoxyethane (0,001 – 5,0) mg per sample - dichlorometane (0,005 – 5,0) mg per sample - trichloroethylene (0,005 – 5,0) mg per sample - tetrachloroethylene (0,006 – 5,0) mg per sample - cyclohexanol (0,005 – 5,0) mg per sample - (gasoline) aliphatic hydrocarbons from C5 to C12 (0,005 – 10,0) mg per sample - n-propyl acetate (0,005 – 5,0) mg per sample - isopropanol (0,005 – 5,5) mg per sample - 2-butoxyethyl acetate (0,005 – 5,0) mg per sample - N-methylpyrrolidone (0,05 – 5,0) mg per sample - acetic acid (0,01 – 5,0) mg per sample - 1-chloro-2,3-epoxypropane (0,001 – 5,0) mg per sample - diacetone alcohol (0,005 – 10,0) mg per sample - cyclohexanone (0,005 – 5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-EN 13649:2005

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Waste gases - samples of waste gases collected on sorbent tubes	Content of organic compounds Range: - ethylene glycol (0,05 – 5,0) mg per sample - acrylonitrile (0,001 – 5,0) mg per sample - tetrahydrofuran (0,005 – 5,0) mg per sample - methanol (0,010 – 10) mg per sample - methyl methacrylate (0,020 – 3,0) mg per sample - butyl methacrylate (0,020 – 3,0) mg per sample - turpentine (aliphatic hydrocarbons up to C12) (0,01 – 5) mg per sample - cyclohexane (0,1 – 10) mg per sample - methyl acetate (0,005 – 5) mg per sample - vinyl acetate (0,005 – 1,4)mg per sample - chlorobenzene (0,05 – 5) mg per sample - dimethylformamide (0,005 – 5,0) mg per sample - 1,1-dichloroethane (0,370 – 8,20) mg per sample - 1,2-dichloroethane (0,00700 – 0,245) mg per sample - 2-methoxyethanol (0,00530 – 0,217) mg per sample - tert-butylethyl ether (0,0910 – 2,30) mg per sample - 2-methoxypropyl acetate (methoxypropyl acetate) (0,100 – 2,00) mg per sample - butan-2-olu (0,250 – 6,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-EN 13649:2005
Waste gases - samples of waste gases collected on sorbent tubes	Content Range: - triethylamine (0,009 – 0,180) mg per sample - triMethylamine (0,0147– 0,294) mg per sample - diethylamine (0,045 – 0,900) mg per sample - dimethylamine (0,009 – 0,180) mg per sample - butylamine (0,010 – 0,100) mg per sample - isopropylamine (0,036 – 0,720) mg per sample - ethylamine (0,028 – 0,564) mg per sample - methylamine (0,015 – 0,300) mg per sample Ion chromatography method with conductometric detection (IC-CD)	IB-136 wydanie nr 1 z dnia 01.04.2022 r.

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Waste gases - Waste gas samples taken on filters	Content hexavalent chromium Range: (0,002 – 0,1) mg per sample Spectrophotometric method	PN-Z-04030-7:1994 IB-56 wydanie nr 1 z dnia 15.01.2010 r.
	Content Range: - 4,4'-methylenebis(phenylisocyanate) (0,0003 – 0,02) mg per sample - toluene-2,4-diyl diisocyanate (0,00006 – 0,01) mg per sample - toluene-2,6-diyl diisocyanate (0,00006 – 0,01) mg per sample - hexane-1,6-diyl diisocyanate (hexamethylene diisocyanate) (0,0003 – 0,02) mg per sample - 2,2'-methylenediphenyl diisocyanate (0,0003 – 0,015) mg per sample - 2,4'-methylenediphenyl diisocyanate (0,0003 – 0,015) mg per sample - 1,5-naphthalene diisocyanate (0,0002 – 0,006) mg per sample - 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate (0,0002 – 0,016) mg per sample - 4,4'-dicyclohexylmethane diisocyanate (0,0002 – 0,008) mg per sample - cyclohexyl isocyanate (0,0002 – 0,016) mg per sample	IB-103 wydanie nr 4 z dnia 15.03.2024 r.
Waste gases - Waste gas samples taken on filters	Content sulfuric acid Range: (0,010 – 3,5) mg per sample Ion chromatography method with conductometric detection (IC-CD)	IB-49 Wyd. Nr 4 z dnia 12.04.2021 r.
Waste gases - Waste gas samples taken into the absorbing solution	Content ammonia Range: (0,015 – 1,4) mg per sample Spectrophotometric method	IB-47 wydanie nr 02 z dnia 19.06.2017 r. PN-Z-04008-4:1999
	Concentration / Content hydrogen cyanide Range: (0,001 – 0,15) mg per sample Ion chromatography method with ampermetric detection (IC-AD)	IB 50 wydanie nr 6 z dnia 07.03.2022 r. PN-Z-04008-4:1999
Waste gases - Waste gas samples taken into the absorbing solution	Content acrylamide Range:(0,000650 – 0,0206) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04486:2017-10
Waste gases - samples of waste gases taken on sorbent tubes	Content aniline Range: (0,004 – 1,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	NIOSH METHOD 2002, Issue 2, 15 August 1994

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Research subject/product	Type of activity/characteristics studied/method	Reference documents
Waste gases - samples of waste gases taken on sorbent tubes	Content: Range: - acetaldehyde (0,0001 – 0,1) mg per sample - glutaraldehyde (0,0001 – 0,1) mg per sample - formaldehyde (0,0001 – 0,1) mg per sample - acrylaldehyde (0,0001 – 0,08) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	IB-81 wydanie nr 7 z dnia 15.03.2024 r. PN-Z-04008-4:1999
	Sum of aromatic hydrocarbons (by calculation)	PN-EN 13649:2005
	Sum of aliphatic hydrocarbons (by calculation)	PN-EN 13649:2005
	Content: 2-aminoethanol Range: (0,002-0,060) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	OSHA PV2111
	Content: 2,2'-iminodiethanol (diethanolamine) Range: (0,009-0,180) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	OSHA PV2018
	Content: - ethylenediamine (0,020-0,400) mg per sample - 2,2'-iminobis(ethylamine) (diethylenetriamine) (0,004-0,080) mg per sample - N,N'-bis(2-aminoethyl)ethylenediamine (triethylenetetramine) (0,001-0,020) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	OSHA 60
	Content: isopentyl acetate Range: (0,200-5,0) mg per sample Gas chromatography method with flame ionization detection (GC-FID)	PN-EN 13649:2005
	Content: acrylic acid Range: (0,015-0,450) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	PN-Z-04460:2014-09
	Content: formamide Range: (0,015-0,450) mg per sample N-methylformamide Range: (0,0027-0,072) mg per sample High-performance liquid chromatography method with spectrophotometric detection (HPLC-UV)	IB-141 wydanie nr 1 z dnia 06.02.2025 r.