Discharged wastewater Requirements

Discharged wastewater Requirements ZDHC Anions

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Chloride	-	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	ISO 10304-1 ISO 15923-1 SM 4110-B SM 4110-C SM 4500-Cl D or E USEPA 300 HJ 84-2016 IS 3025 (Part 32) (potentiometric or automated ferricyanide only) SM 4500-Cl-B SM4500-Cl-C
Cyanide (Total)	-	Textile: 0.2 mg/L	Textile: 0.1 mg/L	Textile: 0.05 mg/L	ISO 6703-1, -2, -3 ISO 14403-1, -2 US EPA 335.2 APHA 4500-CN HJ 484 IS 3025 (Part 27) EPA 9010 EPA 9014 CNR IRSA 17 Q 64 Vol 3 EPA 335.3
Sulphate	-	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	ISO 10304-1 ISO 15923-1 SM 4500 SO4, E, F, G SM 4100 B, C IS 3025 (Part 24) USEPA 300 USEPA 9038 HJ 84-2016 SM 4500 SO4 C

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Sulphide	-	Textile: 0.5 mg/L Leather: 1 mg/L	Textile: 0.05 mg/L Leather: 0.5 mg/L	Textile: 0.01 mg/L Leather: 0.2 mg/L	ISO 10530 SM 4500-S2-D E G or I HJ 1226-2021 IS 3025 (Part 29) (Methylene blue only) EPA 376.2:2003 GB/T 16489 M02-24 A/Brev 3
Sulphite	-	Textile: 2 mg/L Leather: 2 mg/L	Textile: 0.5 mg/L Leather: 0.5 mg/L	Textile: 0.2 mg/L Leather: 0.2 mg/L	ISO 10304-3 SM 4500-SO32-C HJ84 - 2016

ZDHC Conventional Parameters

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
AOX	-	Textile: 3 mg/L Leather: 3 mg/L	Textile: 0.5 mg/L Leather: 0.5 mg/L	Textile: 0.1 mg/L Leather: 0.1 mg/L	ISO 9562 HJ/T 83-2001 US EPA 1650 USEPA 1650C
Ammonium-Nitrogen	-	Textile: 10 mg/L Leather: 15 mg/L	Textile: 1 mg/L Leather: 10 mg/L	Textile: 0.5 mg/L Leather: 1 mg/L	ISO 11732 ISO 7150 USEPA 350.1 USEPA 350.3 SM 4500 NH3 - D E F G or H HJ 535 IS 3025 (Part 34) (Phenate or Ammonia selective electrode only) HJ 536 (with distillation)
Biochemical Oxygen Demand (BOD 5)	-	Textile: 30 mg/L Leather: 50 mg/L	Textile: 15 mg/L Leather: 30 mg/L	Textile: 8 mg/L Leather: 20 mg/L	ISO 5815-1 USEPA 405.1 SM 5210-B HJ 505 IS 3025 (Part 44) (Seeded dilution water) ISO 5815-2 NMX-AA-028-SCFI-2001
Chemical Oxygen Demand (COD)	-	Textile: 150 mg/L Leather: 250 mg/L	Textile: 80 mg/L Leather: 150 mg/L	Textile: 40 mg/L Leather: 100 mg/L	ISO 6060 ISO 15705 USEPA 410.4 SM 5220-D HJ 828 GB/T 11914 (Validated cuvette methods can be used alternatively) IS 3025 (Part 58) (Validated cuvette methods can be used alternatively)
Colour (436nm)	-	Textile: 7 m-1 Leather: 7 m-1	Textile: 5 m-1 Leather: 5 m-1	Textile: 2 m-1 Leather: 2 m-1	ISO 7887-B
Colour (525nm)	-	Textile: 5 m-1 Leather: 5 m-1	Textile: 3 m-1 Leather: 3 m-1	Textile: 1 m-1 Leather: 1 m-1	ISO 7887-B

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Colour (620nm)	-	Textile: 3 m-1 Leather: 3 m-1	Textile: 2 m-1 Leather: 2 m-1	Textile: 1 m-1 Leather: 1 m-1	ISO 7887-B
Dissolved Oxygen (DO)	-	Textile: ≥ 4 mg/L Leather: ≥ 4 mg/L	N/A	N/A	ISO 5814 EPA 360.1 SM 4500-O-G HJ 506
E.coli	-	Textile: 126 MPN/100-ml Leather: 126 MPN/100-ml	N/A	N/A	SM 9221B (Presumptive) SM9221F or G (To confirm positive) 9223 A 9223 B ISO 9308-2 SM 9221 GB 4789.38-2012 (food) HJ 1001 ISO 9308-3
Oil and Grease	-	Textile: 10 mg/L Leather: 20 mg/L	Textile: 2 mg/L Leather: 10 mg/L	Textile: 0.5 mg/L Leather: 5 mg/L	ISO 9377-2 SM 5520-B/C USEPA 1664 (Revision B) HJ 637 ((total oil and grease)) IS 3025 (Part 39) (Partition Gravimetric or Partition Infra-red) USEPA 1664 revision A NMX-AA-005-SCFI-2013
Persistent Foam	-	Textile: No indication of persistent foam in receiving water Leather: No indication of persistent foam in receiving water	N/A	N/A	Test method undefined

Foam is a naturally occurring phenomenon in aeration basins in which biological wastewater treatment occurs. Samplers should include photographs of the foam they witnessed in the final lab report, along with the time and date of taking such photos. The foam colour should be similar to the liquid in the aeration basin, should dissipate quickly and should be contained within the aeration basin. For direct discharge facilities, samplers should check for persistent foam on the surface of receiving waters at the point of discharge and the presence or absence of foam should be noted. This should be checked at the same location used for sampling the temperature difference.
This test is to be done on-site by the sampler.
In case the receiving body is not accessible or risky to access for the sampler, a visual estimation of the foam in the aeration basin should be done. If the foam is higher than 45 centimetres in height (by visual estimation) then it could result in permanent foam being discharged onto the surface of receiving waters and should be reported as 'fail' for the foam parameter.

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Temperature difference	-	Textile: △+15 °C Leather: △+15 °C	Textile: △+10 °C Leather: △+10 °C	Textile: △+5 °C Leather: △+5 °C	USEPA 170.1 SM 2550 GB/T 13195 DIN 38404-4 (Or equivalent) IS 3025 (Part 9) AATCC 81: 2016 BS EN ISO 3071: 2020 NMX-AA-007-SCFI-2013
Take the temperature of the discharged wastewater and the receiving body of water upstream. The temperature of the receiving body is subtracted from the temperature of the discharged wastewater to give the delta temperature difference, which can be a positive or a negative value. The discharge limits only refer to a positive value, which produces an overall increase in the temperature of the receiving body of water. *This parameter is measured on-site by the sampler and is applicable only for direct discharge.* *There may be situations where the sampler is not able to measure the temperature of the receiving body. These situations may include:* *• The receiving body may be several kilometres away from the point of discharge and the facility is discharging the effluent into the receiving body through a pipeline.* *• Accessing the location of the receiving body to measure its temperature can be risky in terms of injury to the sampler or damage to equipment.* *• The effluent is discharged directly into the ground.* *In all such cases where access to the receiving body is not possible or unsafe, the laboratory should report this parameter as “Not Applicable”.*					
Total Chlorine	-	Textile: 1 mg/L Leather: 1 mg/L	N/A	N/A	ISO 7393-2 EPA 330.5 SM4500-Cl-G HJ 586
Total Dissolved Solids (TDS)	-	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	SM 2540-C USEPA 160.1 GB/T 5750.4-2013 (180°C) IS 3025 (Part 16) (179°C to 181°C)
Total Nitrogen	-	Textile: 20 mg/L Leather: 35 mg/L	Textile: 10 mg/L Leather: 20 mg/L	Textile: 5 mg/L Leather: 10 mg/L	ISO 29441 USEPA 351.2 SM 4500P-J SM 4500N-B SM 4500N-C HJ 636 ISO 11905 (Part 1) IS 3025 (Part 34) (Measure and total all forms of nitrogen (ammonia, nitrate, nitrite, organic)) ISO 20236 TS EN 12260 UNI 11658:2016

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Total Phenols / Phenol Index	-	Textile: 0.5 mg/L Leather: 0.5 mg/L	Textile: 0.01 mg/L Leather: 0.3 mg/L	Textile: 0.001 mg/L Leather: 0.1 mg/L	ISO 6439 SM 5530-B/C HJ 503 IS 3025 (Part 43) EPA 5530-B-D-E EPA 5530 CD EPA 420.1
Total Phosphorus	-	Textile: 3 mg/L Leather: 3 mg/L	Textile: 0.5 mg/L Leather: 1 mg/L	Textile: 0.1 mg/L Leather: 0.5 mg/L	ISO 17294 ISO 11885 ISO 6878 USEPA 365.4 SM 4500P-J USEPA 200.7 USEPA 200.8 USEPA 6010C USEPA 6020A GB/T 11893 IS 3025 (Part 31) IS 3025 (Part 65) EPA 365.3 ISO 15681-2
Total Suspended Solids (TSS)	-	Textile: 50 mg/L Leather: 70 mg/L	Textile: 15 mg/L Leather: 50 mg/L	Leather: 20 mg/L Textile: 5 mg/L	ISO 11923 USEPA 160.2 SM 2540D GB/T 11901 IS 3025 (Part 17) (103°C to 105°C) UNI EN 872:2005
Wastewater Flow Rate	-	Textile: 15 m3/day Leather: 15 m3/day	N/A	N/A	Test method undefined
pH	-	Textile: 6-9 pH Leather: 6-9 pH	N/A	N/A	ISO 10523 USEPA 150.1 SM 4500-H+ HJ 1147 IS 3025 (Part 11) (Electrometric method only) TCVN 6492:2011 GB/T 6920-1986 GB/T 7573

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
For direct discharge type of facilities the following parameters must be measured on-site every hour by the sampler during the composite sampling: pH, temperature difference, persistent foam, wastewater flowrate, total chlorine and dissolved oxygen. Refer to the ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan for more information. For flow rate, the applicability of testing is based on < or > 15m3/day.					

ZDHC Heavy Metals

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Antimony (Sb)	7440-36-0	Textile: 0.1 mg/L Leather: 0.1 mg/L	Textile: 0.05 mg/L Leather: 0.05 mg/L	Textile: 0.01 mg/L Leather: 0.01 mg/L	ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A HJ 700 IS 3025 (Part 65) HJ 694 APHA 3125 B APHA 3030 APHA 23rd edition APHA 3120B
Antimony is used as a catalyst in polyester fibre manufacture and may leach out in wastewater at polyester fabric or yarn or fibre processing facilities. Brands and suppliers are encouraged to work with their polyester fibre suppliers to control antimony in their input materials.					
Arsenic (As)	7440-38-2	Textile: 0.05 mg/L Leather: 0.05 mg/L	Textile: 0.01 mg/L Leather: 0.01 mg/L	Textile: 0.005 mg/L Leather: 0.005 mg/L	ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A HJ 700 IS 3025 (Part 65) HJ 694 APHA 3030 APHA 23rd edition APHA 3120B APHA 3120B
Barium (Ba)	7440-39-3	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	EPA 200.8 EPA 6010C EPA 6020A HJ 700 ISO 17294 APHA 3120B APHA 3030 APHA 23rd edition

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Cadmium (Cd)	7440-43-9	Textile: 0.1 mg/L Leather: 0.1 mg/L	Textile: 0.05 mg/L Leather: 0.05 mg/L	Textile: 0.01 mg/L Leather: 0.01 mg/L	ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A GB 7475 HJ 700 IS 3025 (Part 65) (AAS Instrumental Method) IS 3025 (Part 41) (AAS Instrumental Method) APHA 3120B APHA 3030 APHA 23rd edition
Chromium (VI)	18540-29-9	Textile: 0.05 mg/L Leather: 0.15 mg/L	Textile: 0.005 mg/L Leather: 0.05 mg/L	Textile: 0.001 mg/L Leather: 0.02 mg/L	ISO 18412 USEPA 218.6 GB 7467 IS 3025 (Part 52) (Must meet reporting limit) ISO 17075 USEPA 7199 APHA 3500 Cr B
Chromium (total)	-	Textile: 0.2 mg/L Leather: 1.5 mg/L	Textile: 0.1 mg/L Leather: 0.8 mg/L	Textile: 0.05 mg/L Leather: 0.3 mg/L	IS 3025 (Part 65) ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A HJ 700 APHA 3030 APHA 23rd edition APHA 3120B
Cobalt (Co)	7440-48-4	Textile: 0.05 mg/L Leather: 0.05 mg/L	Textile: 0.02 mg/L Leather: 0.02 mg/L	Textile: 0.01 mg/L Leather: 0.01 mg/L	ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A HJ 700 IS 3025 (Part 65) APHA 3120B APHA 3030 APHA 23rd edition

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Copper (Cu)	7440-50-8	Textile: 1 mg/L Leather: 1 mg/L	Textile: 0.5 mg/L Leather: 0.5 mg/L	Textile: 0.25 mg/L Leather: 0.25 mg/L	ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A HJ 700 IS 3025 (Part 65) (AAS Instrumental Method) IS 3025 (Part 42) (AAS Instrumental Method) GB 7475 IS 3025 (Part 42) APHA 23rd edition APHA 3030 APHA 23rd edition APHA 3120B APHA 3030 APHA 23rd edition
Lead (Pb)	7439-92-1	Textile: 0.1 mg/L Leather: 0.1 mg/L	Textile: 0.05 mg/L Leather: 0.05 mg/L	Textile: 0.01 mg/L Leather: 0.01 mg/L	ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A HJ 700 IS 3025 (Part 65) (AAS Instrumental Method) IS 3025 (Part 47) (AAS Instrumental Method) GB 7475 APHA 3120B APHA 3030 APHA 23rd edition

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Mercury (Hg)	7439-97-6	Textile: 0.01 mg/L Leather: 0.01 mg/L	Textile: 0.005 mg/L Leather: 0.005 mg/L	Textile: 0.001 mg/L Leather: 0.001 mg/L	ISO 17294 EPA 200.8-SIM EPA 6020A-SIM EPA 245.1 EPA 245.7 HJ 597 HJ 694 IS 3025 (Part 48) (Cold Vapour AAS only) IS 3025 (Part 65) ISO 11885 APHA 3120B APHA 3030 APHA 23rd edition APHA 3125 B ISO 17852 EPA 7470 A UNI EN ISO 12846:2013
Nickel (Ni)	7440-02-0	Textile: 0.2 mg/L Leather: 0.2 mg/L	Textile: 0.1 mg/L Leather: 0.1 mg/L	Textile: 0.05 mg/L Leather: 0.05 mg/L	ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A GB 11912 HJ 700 IS 3025 (Part 65) (AAS Instrumental Method) IS 3025 (Part 54) (AAS Instrumental Method) APHA 3120B APHA 3030 APHA 23rd edition
Selenium (Se)	7782-49-2	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	EPA 200.8 EPA 6010C EPA 6020A HJ 700 APHA 3120B APHA 3030 APHA 23rd edition HJ 694

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Silver (Ag)	7440-22-4	Textile: 0.1 mg/L Leather: 0.1 mg/L	Textile: 0.05 mg/L Leather: 0.05 mg/L	Textile: 0.005 mg/L Leather: 0.005 mg/L	ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A GB 11907 HJ 700 IS 3025 (Part 65) APHA 3030 APHA 23rd edition APHA 3120B
Tin (Sn)	7440-31-5	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	Textile: (Sample and report) mg/L Leather: (Sample and report) mg/L	EPA 200.8 EPA 6010C EPA 6020A HJ 700 EN 71.3 APHA 3030 APHA 23rd edition APHA 3120B ISO 17294
Zinc (Zn)	7440-66-6	Textile: 5 mg/L Leather: 5 mg/L	Textile: 1 mg/L Leather: 1 mg/L	Textile: 0.5 mg/L Leather: 0.5 mg/L	ISO 17294 USEPA 200.8 USEPA 6010C USEPA 6020A GB 7472 GB 7475 HJ 700 IS 3025 (Part 65) (AAS Instrumental Method) IS 3025 (Part 49) (AAS Instrumental Method) APHA 3120B APHA 3030 APHA 23rd edition

Untreated wastewater Requirements

ZDHC MRSL Parameters

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers					
Nonylphenol (NP), mixed isomers	104-40-5 11066-49-2 25154-52-3 84852-15-3 Multiple	Leather: 5 µg/L Textile: 5 µg/L	N/A	N/A	ISO 18857-2 (Modified dichloromethane extraction) ASTM D7065 (GC-MS or LC-MS/MS) ASTM D7742 GB/T 31414-2105 ISO 18254-1 ISO 18218-1 2105 (leather)
Nonylphenol ethoxylates (NPEO)	127087-87-0 26027-38-3 37205-87-1 68412-54-4 9016-45-9 Multiple	Textile: 5 µg/L Leather: 5 µg/L	N/A	N/A	ASTM D7742 ISO 18857-2 (Modified dichloromethane extraction) ASTM D7065 (GC-MS or LC-MS/MS) ISO 18218-1 2105 (leather) ISO 18254-1 GB/T 31414-2105
Octylphenol (OP), mixed isomers	140-66-9 1806-26-4 27193-28-8 Multiple	Leather: 5 µg/L Textile: 5 µg/L	N/A	N/A	ISO 18857-2 (GC-MS or LC-MS/MS) ASTM D7065 ((modified dichloromethane extraction)) ASTM D7742 ISO 18254-1 ISO 18218-1 2105 (leather) GB/T 31414-2105
Octylphenol ethoxylates (OPEO)	68987-90-6 9002-93-1 9036-19-5 Multiple	Leather: 5 µg/L Textile: 5 µg/L	N/A	N/A	ISO 18857-2 (modified dichloromethane extraction) ASTM D7065 (GC-MS or LC-MS/MS) ASTM D7742 ISO 18254-1 ISO 18218-1 2105 (leather) GB/T 31414-2105

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Anti-microbials and Biocides					
O-Phenylphenol(+salts)	90-43-7	Textile: 100 µg/L Leather: (Sample and report) µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (An alternative method of solvent extraction and derivatisation are included)
Permethrin	52645-53-1 Multiple	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, followed by GC-MS) ISO 14154:2005 (An alternate method, without derivatisation and determination by LCMS/LCMSMS, is also possible)
Triclosan	3380-34-5	Leather: 100 µg/L Textile: 100 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (An alternative method of solvent extraction and derivatisation are included)
Chlorinated Paraffins					
Medium-chain Chlorinated Paraffins (MCCPs)(C14-C17)	85535-85-9	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	EPA 3510 ISO 18219-2:2021 (Method for MCCP with GC-MS(NCI) or LC-MS/MS)
Short-chain Chlorinated Paraffins (SCCPs) (C10-C13)	85535-84-8	Leather: 25 µg/L Textile: 25 µg/L	N/A	N/A	EPA 3510 ISO 18219-1:2021 (Method for SCCP with GC-MS(NCI) or LC-MS/MS) ISO 12010:2019 (Method for SCCP with GC-MS(NCI) or LC-MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Chlorobenzenes and Chlorotoluenes	-	Leather: 0.2 µg/L Textile: 0.2 µg/L	N/A	N/A	USEPA 8260D (Purge and trap, head space, dichloromethane extraction followed by GC-MS) USEPA 8270E (Purge and trap, head space, dichloromethane extraction followed by GC-MS) HJ 699 - 2014 DIN 38407- 37 EPA 8021 B EPA 8270 D EPA 8540 C ASTM D 5369 - 93
Chlorophenols					
2,3,4,5-Tetrachlorophenol	4901-51-3	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included) EN 12673 US EPA 1653 + US EPA 8270D
2,3,4,6-Tetrachlorophenol	58-90-2	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included) US EPA 1653 + US EPA 8270D EN 12673

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
2,3,4-Trichlorophenol	15950-66-0	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
2,3,5,6-Tetrachlorophenol	935-95-5	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
2,3,5-Trichlorophenol	933-78-8	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
2,3,6-Trichlorophenol	933-75-5	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
2,3-Dichlorophenol	576-24-9	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
2,4,5-Trichlorophenol	95-95-4	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
2,4,6-Trichlorophenol	88-06-2	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
2,4-Dichlorophenol	120-83-2	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
2,5-Dichlorophenol	583-78-8	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
2,6-Dichlorophenol	87-65-0	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
2-Chlorophenol	95-57-8	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
3,4,5-Trichlorophenol	609-19-8	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
3,4-Dichlorophenol	95-77-2	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included)
3,5-Dichlorophenol	591-35-5	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included) EN 12673 US EPA 1653 + US EPA 8270D

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
3-Chlorophenol	108-43-0	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included) EN 12673 US EPA 1653 + US EPA 8270D
4-Chlorophenol	106-48-9	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included) EN 12673 US EPA 1653 + US EPA 8270D
Pentachlorophenol (PCP)	87-86-5	Leather: 0.5 µg/L Textile: 0.5 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS) BS EN 12673-1999 (The procedure of solvent extraction and derivatisation are included) EN 12673 US EPA 1653 + US EPA 8270D
Dyes – Carcinogenic or Equivalent Concern					
Basic Violet 3 with > 0.1% of Michler´s Ketone	548-62-9	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Acid Red 26	3761-53-3	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Acid Violet 49	1694-09-03	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Basic Green 4 (Malachite Green Chloride)	569-64-2	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS EPA 8321 B, Direct Injection method LC/MS/MS.
C.I. Basic Green 4 (Malachite Green Oxalate)	2437-29-8	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Basic Green 4 (Malachite Green)	10309-95-2	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS EPA 8321 B, Direct Injection method LC/MS/MS.
C.I. Basic Red 9	569-61-9	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Basic Violet 14	632-99-5	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Direct Black 38	1937-37-7	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Direct Blue 6	2602-46-2	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Direct Red 28	573-58-0	Leather: 500 µg/L Textile: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Disperse Blue 1	2475-45-8	Textile: 500 µg/L Leather: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Disperse Blue 3	2475-46-9	Textile: 500 µg/L Leather: 500 µg/L	N/A	N/A	Liquid extraction LC-MS
C.I. Disperse Orange 11	82-28-0	Textile: 500 µg/L Leather: 500 µg/L	N/A	N/A	Liquid extraction LC-MS Direct aqueous injection followed by LC/MS/MS (based on DIN 54231:2022)
Dyes – Disperse (Allergenic)					
Disperse Blue 102	12222-97-8	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Disperse Blue 106	12223-01-7	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS US EPA 1653 + US EPA 8270D
Disperse Blue 124	61951-51-7	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Blue 26	3860-63-7	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Blue 35	12222-75-2 56524-77-7	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Blue 7	3179-90-6	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Brown 1	23355-64-8	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Orange 1	2581-69-3	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Orange 3	730-40-5	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Orange 37/59/76	13301-61-6	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Red 1	2872-52-8	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS USEPA 8321B
Disperse Red 11	2872-48-2	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Red 17	3179-89-3	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Yellow 1	119-15-3	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Yellow 3	2832-40-8	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Yellow 39	12236-29-2	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS USEPA 8321B
Disperse Yellow 49	54824-37-2	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Disperse Yellow 9	6373-73-5	Textile: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Flame Retardants					

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Boric acid	10043-35-3 11113-50-1	Textile: 500 µg/L Leather: 500 µg/L	N/A	N/A	determined as total boron via ICP

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Decabromobiphenyl (DecaBB)	13654-09-6	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Diboron trioxide	1303-86-2	Textile: 500 µg/L Leather: 500 µg/L	N/A	N/A	determined as total boron via ICP

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Dibromobiphenyls (DiBB)	Multiple	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Dibromopropylether	21850-44-2	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Disodium octaborate	12008-41-2	Textile: 500 µg/L Leather: 500 µg/L	N/A	N/A	determined as total boron via ICP
Disodium tetraborate, anhydrous	1303-96-4 1330-43-4	Textile: 500 µg/L Leather: 500 µg/L	N/A	N/A	determined as total boron via ICP

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Hexabromocyclodecane (HBCDD)	3194-55-6	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Monobromobiphenyls (MonoBB)	Multiple	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E ((Dichloromethane extraction GC-MS or LC-MS/MS)) ISO 22032 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 527 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 8321B ((Dichloromethane extraction GC-MS or LC-MS/MS))

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Monobromodiphenylethers (MonoBDEs)	Multiple	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E ((Dichloromethane extraction GC-MS or LC-MS/MS)) ISO 22032 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 527 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 8321B ((Dichloromethane extraction GC-MS or LC-MS/MS))
Nonabromobiphenyls (NonaBB)	Multiple	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E ((Dichloromethane extraction GC-MS or LC-MS/MS)) ISO 22032 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 527 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 8321B ((Dichloromethane extraction GC-MS or LC-MS/MS))

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E ((Dichloromethane extraction GC-MS or LC-MS/MS)) ISO 22032 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 527 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 8321B ((Dichloromethane extraction GC-MS or LC-MS/MS))
Octabromobiphenyls (OctaBB)	Multiple	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E ((Dichloromethane extraction GC-MS or LC-MS/MS)) ISO 22032 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 527 ((Dichloromethane extraction GC-MS or LC-MS/MS)) USEPA 8321B ((Dichloromethane extraction GC-MS or LC-MS/MS))

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Polybromobiphenyls (PBB)	59536-65-1	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textile: 500 µg/L Leather: 500 µg/L	N/A	N/A	determined as total boron via ICP
Tetrabromobisphenol A (TBBPA)	79-94-7	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Tribromodiphenylethers (TriBDEs)	Multiple	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Tris(2,3,-dibromopropyl) phosphate (TRIS)	126-72-7	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Tris(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textile: 25 µg/L Leather: 25 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS)
Glycols / Glycol Ethers					
2-Methoxyethyl acetate	110-49-6	Leather: 50 µg/L Textile: 50 µg/L	N/A	N/A	USEPA 8270E (Liquid extraction, GC-MS , LC-MS)
2-Methoxypropyl acetate	70657-70-4	Leather: 50 µg/L Textile: 50 µg/L	N/A	N/A	USEPA 8270E (Liquid extraction, GC-MS, LC-MS)
2-ethoxyethanol	110-80-5	Leather: 50 µg/L Textile: 50 µg/L	N/A	N/A	USEPA 8270E (Liquid extraction, GC-MS, LC-MS)
2-ethoxyethyl acetate	111-15-9	Leather: 50 µg/L Textile: 50 µg/L	N/A	N/A	USEPA 8270E (Liquid extraction, GC-MS, LC-MS)
2-methoxyethanol	109-86-4	Leather: 50 µg/L Textile: 50 µg/L	N/A	N/A	USEPA 8270E (Liquid extraction, LC-MS, GC-MS)
Bis(2-methoxyethyl) ether	111-96-6	Leather: 50 µg/L Textile: 50 µg/L	N/A	N/A	USEPA 8270E (Liquid extraction, GC-MS, LC-MS)
Ethylene glycol dimethyl ether	110-71-4	Leather: 50 µg/L Textile: 50 µg/L	N/A	N/A	USEPA 8270E (Liquid extraction, GC-MS, LC-MS)
Triethylene glycol dimethyl ether	112-49-2	Leather: 50 µg/L Textile: 50 µg/L	N/A	N/A	USEPA 8270E (Liquid extraction, GC-MS, LC-MS) DIN EN ISO 11890-2
Halogenated Solvents					

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
1,2-Dichloroethane	107-06-2	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	USEPA 8260D (Headspace GC/MS or Purge and trap GC/MS)
Methylene chloride	75-09-2	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	USEPA 8260D (Headspace GC/MS or Purge and trap GC/MS)
Tetrachloroethylene	127-18-4	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	USEPA 8260D (Headspace GC/MS or Purge and trap GC/MS)
Trichloroethylene	79-01-6	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	USEPA 8260D (Headspace GC/MS or Purge and trap GC/MS)
N,N-di-methylformamide (DMFa)					
Dimethyl formamide; N,N-dimethylformamide (DMFa)	68-12-2	Textile: 1000 µg/L Leather: (Sample and report) µg/L	N/A	N/A	EPA 8015 EPA 8270E
Organotin Compounds					
Dipropyltin compounds (DPT)	867-36-7 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353 (Derivatisation with NaB(C2H5) GC-MS)
Mono-, di- and tri- butyltin derivatives	1118-46-3 1461-22-9 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353 (Derivatisation with NaB(C2H5) GC-MS)
Mono-, di- and tri- methyltin derivatives	1066-45-1 753-73-1 993-16-8 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353 (Derivatisation with NaB(C2H5) GC-MS)
Mono-, di- and tri- octyltin derivatives	2587-76-0 3091-25-6 3542-36-7 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353 (Derivatisation with NaB(C2H5) GC-MS)
Mono-, di- and tri- phenyltin derivatives	1124-19-2 1135-99-5 639-58-7 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353 (Derivatisation with NaB(C2H5) GC-MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Tetrabutyltin Compounds (TeBT)	1461-25-2 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353 (Derivatisation with NaB(C2H5) GC-MS)
Tetraethyltin Compounds (TeET)	597-64-8 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353
Tetraoctyltin Compounds (TeOT)	3590-84-9 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353 (Derivatisation with NaB(C2H5) GC-MS)
Tricyclohexyltin (TCyHT)	3091-32-5 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353 (Derivatisation with NaB(C2H5) GC-MS)
Tripropyltin Compounds (TPT)	2279-76-7 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	ISO 17353 (Derivatisation with NaB(C2H5) GC-MS)
Other/Miscellaneous Chemicals					
AEEA (2-(2-Aminoethylamino)ethanol))	111-41-1	Textile: 500 µg/L Leather: 500 µg/L	N/A	N/A	Liquid extraction LC-MSMS
Bisphenol A (BPA)	80-05-7	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	Liquid extraction LC-MS
Borate, zinc salt	12767-90-7	Textile: 100 µg/L Leather: 100 µg/L	N/A	N/A	ICP (Determined as total Boron and total Zinc)
Footnote for borate, zinc salt: Limit refers to boron and zinc individually, not the salt.					
Quinoline	91-22-5	Textile: 50 µg/L Leather: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Thiourea	62-56-6	Textile: 50 µg/L Leather: 50 µg/L	N/A	N/A	Liquid extraction LC-MS
Perfluorinated and Polyfluorinated Chemicals (PFCs)					
Perfluorooctane sulfonic acid (PFOS) and related susbstances	1763-23-1 Multiple	Leather: 0.01 µg/L Textile: 0.01 µg/L	N/A	N/A	EPA 537:2020 GC-MS (Derivatisation with KOH, acetic anhydride followed by GC-MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Perfluorooctanoic acid (PFOA) and related substances	335-67-1 Multiple	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	EPA 537:2020 GC-MS (Derivatisation with KOH, acetic anhydride followed by GC-MS)
Footnote on PFAS: ZDHC Wastewater Guidelines V2.2 requires facilities to test for the ZDHC MRSL V2.0 substances. With respect to PFAS, the ZDHC MRSL V2.0 only restricts the species listed in table 1O. However, the ZDHC MRSL V3.1 restricts all PFAS and this restriction will thus be included in ZDHC Wastewater Guidelines V3.0.					
Phthalates – Including All Other Esters of Ortho-Phthalic Acid					
1,2-Benzenedicarboxylic acid, di-C6-8-branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6	Leather: 10 µg/L Textile: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4 68515-50-4	Leather: 10 µg/L Textile: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	Leather: 10 µg/L Textile: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Butyl benzyl phthalate (BBP)	85-68-7	Leather: 10 µg/L Textile: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Di(ethylhexyl) phthalate (DEHP)	117-81-7	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	ISO 18856 (Dichloromethane extraction GC-MS) USEPA 8270E (Dichloromethane extraction GC-MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Di-cyclohexyl phthalate (DCHP)	84-61-7	Leather: 10 µg/L Textile: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Di-iso-butyl phthalate (DIBP)	84-69-5	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Di-iso-decyl phthalate (DIDP)	26761-40-0	Leather: 10 µg/L Textile: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Di-iso-octyl phthalate (DIOP)	27554-26-3	Leather: 10 µg/L Textile: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Di-isononyl phthalate (DINP)	28553-12-0	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Di-n-hexyl phthalate (DnHP)	84-75-3	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Di-n-octyl phthalate (DNOP)	117-84-0	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Di-n-pentylphthalates (DnPP)	131-18-0	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Di-n-propyl phthalate (DPRP)	131-16-8	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	USEPA 8270E (Dichloromethane extraction GC-MS) ISO 18856 (Dichloromethane extraction GC-MS)
Dibutyl phthalate (DBP)	84-74-2	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	ISO 18856 (Dichloromethane extraction GC-MS) USEPA 8270E (Dichloromethane extraction GC-MS)
Diethyl phthalate (DEP)	84-66-2	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	ISO 18856 (Dichloromethane extraction GC-MS) USEPA 8270E (Dichloromethane extraction GC-MS)
Diisopentyl phthalates (DIPP)	605-50-5	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	ISO 18856 (Dichloromethane extraction GC-MS) USEPA 8270E (Dichloromethane extraction GC-MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Dinonyl phthalate (DNP)	84-76-4	Textile: 10 µg/L Leather: 10 µg/L	N/A	N/A	ISO 18856 (Dichloromethane extraction GC-MS) USEPA 8270E (Dichloromethane extraction GC-MS)
Polycyclic Aromatic Hydrocarbons (PAHs)					
Acenaphthene	83-32-9	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Acenaphthylene	208-96-8	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Anthracene	120-12-7	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Benzo[a]anthracene	56-55-3	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Benzo[a]pyrene (BaP)	50-32-8	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Benzo[b]fluoranthene	205-99-2	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS) DIN EN 17132 for textile
Benzo[e]pyrene	192-97-2	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Benzo[ghi]perylene	191-24-2	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Benzo[j]fluoranthene	205-82-3	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Benzo[k]fluoranthene	207-08-9	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Chrysene	218-01-9	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Dibenz[a,h]anthracene	53-70-3	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Fluoranthene	206-44-0	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Fluorene	86-73-7	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Indeno[1,2,3-cd]pyrene	193-39-5	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Naphthalene	91-20-3	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
Phenanthrene	85-01-8	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Pyrene	129-00-0	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	USEPA 8270E (Solvent extraction GC-MS) DIN 38407-39 (Solvent extraction GC-MS)
Restricted Aromatic Amines (Cleavable from Azo-Colourants)					
2,4,5-Trimethylaniline	137-17-7	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
2,4,5-trimethylaniline hydrochloride	21436-97-5	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
2,4-Xylidine	95-68-1	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
2,6-Xylidine	87-62-7	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
2-Naphthylamine	91-59-8	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
2-Naphthylammoniumacetate	553-00-4	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
3,3'-Dichlorobenzidine	91-94-1	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
3,3-Dimethoxylbenzidine	119-90-4	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
3,3-Dimethylbenzidine	119-93-7	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4,4'-Methylenedi-o-toluidine	838-88-0	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
4,4'-Oxydianiline	101-80-4	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4,4'-Thiodianiline	139-65-1	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4,4-Methylenedianiline	101-77-9	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4-Aminoazobenzene	60-09-3	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
4-Aminodiphenyl	92-67-1	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4-Chloro-o-toluidine	95-69-2	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4-Chloroaniline	106-47-8	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)

Footnote for 4-chloroaniline:- P-Chloroaniline (PCA) has historically been used in the manufacture of dyes, pigments and other industrial chemicals. PCA is a carcinogenic amine that can be released from certain restricted dyes by reductive azo cleavage. It can also be present as a very low level contaminant in non-restricted dyes that do not release it via reductive azo cleavage. Deliberate use of PCA or dyes that are known to release PCA is not permitted and there is a limit in the ZDHC MRSL of 150 ppm. However, the use of conformant formulations with PCA below this limit value may occasionally result in PCA detections in untreated effluent, particularly where a facility has dyed a large number of black or dark shades over a relatively short period of time. If PCA is detected in wastewater and it is confirmed that the dye inventory is ZDHC MRSL conformant, it is advisable to liaise with dye suppliers to seek the lowest PCA content or PCA-free option for dyes such as reactive Black 5, which are used in large quantities and can be the source of PCA.

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
4-chloro-o-toluidinium chloride	3165-93-3	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4-methoxy-m-phenylene diammonium sulphate;2,4-diaminoanisole sulphate	39156-41-7	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4-methoxy-m-phenylenediamine	615-05-04	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
4-methyl-m-phenylenediamine	95-80-7	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
5-nitro-o-toluidine	99-55-8	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
6-methoxy-m-toluidine	120-71-8	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
Benzidine	92-87-5	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
o-Aminoazotoluene	97-56-3	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
o-Anisidine	90-04-0	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
o-Toluidine	95-53-4	Textile: 0.1 µg/L Leather: 0.1 µg/L	N/A	N/A	USEPA 8270E (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-1 (Reduction step with sodium dithionite, Solvent extraction with GC/MS or LC MS/MS) ISO 14362-3 (GC/MS or LC MS/MS)
UV Absorbers					
2,4-Di-tert-butyl-6-(5-chloro benzotriazole-2-yl) phenol (UV-327)	3864-99-1	Textile: 100 µg/L Leather: 100 µg/L	N/A	N/A	US EPA 8270 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	Textile: 100 µg/L Leather: 100 µg/L	N/A	N/A	US EPA 8270 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol(UV-350)	36437-37-3	Textile: 100 µg/L Leather: 100 µg/L	N/A	N/A	US EPA 8270 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS)

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	Textile: 100 µg/L Leather: 100 µg/L	N/A	N/A	US EPA 8270 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 527 (Dichloromethane extraction GC-MS or LC-MS/MS) USEPA 8321B (Dichloromethane extraction GC-MS or LC-MS/MS) ISO 22032 (Dichloromethane extraction GC-MS or LC-MS/MS)
Volatile Organic Compounds (VOC)					
Benzene	71-43-2	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	ISO 11423-1 (Headspace or Purge and trap) USEPA 8260D ISO 20595 (Static headspace for determination of VOC in wastewater)
Toluene	108-88-3	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	HJ 1067 EPA 8260D ISO 11423-1
Xylene	1330-20-7	Textile: 1 µg/L Leather: 1 µg/L	N/A	N/A	ISO 11423-1 (Headspace or Purge and trap GC-MS) USEPA 8260D
m-cresol	108-39-4	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	ISO 11423-1 (Headspace or Purge and trap GC-MS) EPA 8270 BS EN 12673-1999
o-cresol	95-48-7	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	ISO 11423-1 (Headspace or Purge and trap, GC-MS) EPA 8270 BS EN 12673-1999

Parameter	CAS No.	Foundational	Progressive	Aspirational	Test Methods
p-cresol	106-44-5	Leather: 1 µg/L Textile: 1 µg/L	N/A	N/A	ISO 11423-1 (Headspace or Purge and trap, GC-MS) EPA 8270 BS EN 12673-1999