

Human-Biomonitoring (HBM) values, derived by the Human Biomonitoring Commission of the German Environment Agency, date march 2020

Analyt und Probenmaterial	Personengruppen	HBM-I-Wert	HBM-II-Wert	
Lead in whole blood [1996, 2002, 2009]		suspended	suspended	
Cadmium in urine [1998, 2011]	children and adolescents; adults	0.5 µg/l; 1 µg/l	2 µg/l; 4 µg/l	
Mercury in urine [1999]	children and adults	7 µg/l; 5 µg/g crea.	25 µg/l; 20 µg/g Crea.	
Mercury in whole blood [1999]	children and adults	5 µg/l	15 µg/l	
Thallium in urine [2011]	general population	5 µg/l	/	
Pentachlorophenol (PCP) in serum [1997]	general population	40 µg/l	70 µg/l	
Pentachlorophenol (PCP) in urine [1997]	general population	25 µg/l; 20 µg/g crea.	40 µg/l; 30 µg/g crea.	
∑ of DEHP-metabolites 5 oxo- and 5 OH-MEHP in urine [2007]	children aged 6-13 years; women of child-bearing age; men aged 14 years and older, remaining general population	500 µg/l; 300 µg/l; 750 µg/l	/	
Bisphenol A in urine [2012, updated 2015]	children; adults	0.1 mg/l; 0.2 mg/l	/	
∑ PCB (138 + 153 + 180) in serum x 2 [2012]	infants, toddlers and women of child-bearing age	3.5 µg/l	7 µg/l	
Glycoether which are metabolized to 2-methoxyacetic acid (MAA), urine [2014]	general population	0.4 mg MAA/g creatinine	1.6 mg MAA/g creatinine	
Glycoether which are metabolized to 2-ethoxyacetic acid (EAA), urine [2016]	adults	5 mg EAA/l	/	
∑ DINCH®-metabolites OH-MINCH and cx-MINCH in urine [2014]	children; adults	3 mg/l; 4.5 mg/l	/	
∑ DPHP-metabolites OH-MPHP and oxo-MPHP in urine [2015]	children; adults	1 mg/l; 1.5 mg/l	/	
Hexabromocyclododecane (HBCD(D)) [2015]	general population	0.3 µg/g Fett (1.6 µg/l plasma)	/	
Triclosan in urine [2015]	children; adults	2 mg/l; 3 mg/l	/	
2-Mercaptobenzothiazole (2-MBT) in urine [2015]	children; adults	4.5 mg/l; 7 mg/l	/	possible sensitization not considered
∑ N-Methyl-2-pyrrolidone (NMP)-metabolites 5-Hydroxy-NMP and 2-Hydroxy-N-methylsuccinimide in urine [2015]	children; adults	10 mg/l; 15 mg/l	30 mg/l; 50 mg/l	
∑ N-Ethyl-2-pyrrolidone (NEP)-metabolites 5-HNEP and 2-HESI in urine [2015]	children; adults	10 mg/l; 15 mg/l	25 mg/l; 40 mg/l	
∑ 3-(4-Methylbenzylidene)-camphor (4-MBC)-metabolites 3-4CBHC and 3-4CBC in urine [2016]	children; adults	0.3 mg/l; 0.5 mg/l	/	
PFOA in blood plasma [2016, 2020]	general population	2 µg/l	10 µg/l	
	women of child-bearing age		5 µg/l	
PFOS in blood plasma [2016, 2020]	general population	5 µg/l	20 µg/l	
	women of child-bearing age		10 µg/l	
7-Hydroxycitronellal, metabolite 7-Hydroxycitronellyl acid in urine	children; adults	9 mg/l; 14 mg/l		possible sensitization not considered
DEHP metabolite 5cx-MEPTP in urine (publication in preparation)	children; adults	1.8 mg/l; 2.8 mg/l		