

Indoor air guide values derived by the German Committee on Indoor Air Guide Values (AIR)

Name	CAS No.	Year ^[2]	GV II	GV I	Unit	Remarks ^[3]
Aldehydes						
Acrolein	107-02-8	2025	12	6.0	µg/m ³	
Formaldehyde	50-00-0	2016	-	0.10	mg/m ³	
Acetaldehyde	75-07-0	2013	1.0	0.10	mg/m ³	
2-Furaldehyde	98-01-1	2011	0.10	0.010	mg/m ³	
Benzaldehyde	100-52-7	2010	0.20	0.020	mg/m ³	V
∑ C ₄ -C ₁₁ Aldehydes ^[1]	various ^[1]	2009	2.0	0.10	mg/m ³	G
Aliphatic hydrocarbons						
∑ C ₉ -C ₁₄ -Alkanes / Isoalkanes ^[1]	various ^[1]	2005	2.0	0.20	mg/m ³	G
Alcohols						
1-Propanol	71-23-8	2022	46	14	mg/m ³	
Methanol	67-56-1	2022	40	13	mg/m ³	60 min
2-Propanol	67-63-0	2021	45	22	mg/m ³	
Propan-1,2-diol	57-55-6	2017	0.60	0.060	mg/m ³	
1-Butanol	71-36-3	2014	2.0	0.70	mg/m ³	
2-Ethylhexanol	104-76-7	2013	1.0	0.10	mg/m ³	V, S
Benzyl alcohol	100-51-6	2010	4.0	0.40	mg/m ³	
Aromatic hydrocarbons						
∑ C ₇ -C ₈ Alkyl benzenes	various ^[1]	2016	1 ^[1]	1 ^[1]	-	G, R
Toluene	108-88-3	2016	3.0	0.30	mg/m ³	
∑ Xylenes	various ^[1]	2015	0.80	0.10	mg/m ³	G
∑ Naphthalene and naphthalene-like subst.	various ^[1]	2013	30	10	µg/m ³	G
Ethylbenzene	100-41-4	2012	2.0	0.20	mg/m ³	
∑ C ₉ -C ₁₅ Alkyl benzenes	various ^[1]	2012	1.0	0.10	mg/m ³	G
∑ Cresols	various ^[1]	2012	50	5.0	µg/m ³	G
Phenol	108-95-2	2011	0.20	0.020	mg/m ³	
Styrene	100-42-5	1998	0.30	0.030	mg/m ³	
Carboxylic acids						
Methanoic acid	64-18-6	2023	1.0	0.51	mg/m ³	
Ethanoic acid	64-19-7	2023	3.7	1.3	mg/m ³	
Propionic acid	79-09-4	2023	1.6	0.78	mg/m ³	
Esters						
Methyl methacrylate	80-62-6	2021	2.1	1.1	mg/m ³	
Ethyl acetate	141-78-6	2014	6.0	0.60	mg/m ³	
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	2002	50	5.0	µg/m ³	
Glycols / Glycol ethers / Glycol esters						

2-Phenoxyethanol	122-99-6	2018	0.10	0.030	mg/m ³
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Ethylene glycol monomethyl ether (EGME)	109-86-4	2013	0.20	0.020	mg/m ³	
Diethylene glycol methyl ether (DEGME)	111-77-3	2013	6.0	2.0	mg/m ³	V
Diethylene glycol dimethyl ether (DEGDME)	111-96-6	2013	0.30	0.030	mg/m ³	
Ethylene glycol monoethyl ether (EGEE)	110-80-5	2013	1.0	0.10	mg/m ³	
Ethylene glycol monoethyl ether acetate (EGEEA)	111-15-9	2013	2.0	0.20	mg/m ³	V
Diethylene glycol monoethyl ether (DEGEE)	111-90-0	2013	2.0	0.70	mg/m ³	V
Ethylene glycol butyl ether (EGBE)	111-76-2	2013	1.0	0.10	mg/m ³	
Ethylene glycol butyl ether acetate (EGBEA)	112-07-2	2013	2.0	0.20	mg/m ³	V
Diethylene glycol butyl ether (DEGBE)	112-34-5	2013	1.0	0.40	mg/m ³	V
Ethylene glycol hexyl ether (EGHE)	112-25-4	2013	1.0	0.10	mg/m ³	
Propylene glycol methyl ether (2PG1ME)	107-98-2	2013	10	1.0	mg/m ³	
Dipropylene glycol monomethyl ether (D2PGME)	34590-94-8	2013	7.0	2.0	mg/m ³	V, S
Propylene glycol monoethyl ether (2PG1EE)	1569-02-4	2013	3.0	0.30	mg/m ³	
Propylene glycol 1-tert-butyl ether (2PG1tBE)	57018-52-7	2013	3.0	0.30	mg/m ³	
Default-value: Glycol ether ^[1]	various ^[1]	2013	0.050	0.0050	ppm	V, [4]
Σ Glycol ethers	various ^[1]	2013	1 ^[1]	1 ^[1]	-	R
Halogenated hydrocarbons						
Polychlorinated biphenyls (PCB) ^[1]	various ^[1]	2025	0.80	0.080	µg/m ³	G
Tetrachloroethene	127-18-4	2017	1.0	0.10	mg/m ³	
2-Chloropropane	75-29-6	2015	8.0	0.80	mg/m ³	
Dichloromethane	75-09-2	1997	2.0	0.20	mg/m ³	24 h
Pentachlorophenol (PCP)	87-86-5	1997	1.0	0.10	µg/m ³	
Ketones						
Acetophenone	98-86-2	2022	220	66	µg/m ³	
Acetone	67-64-1	2021	160	53	mg/m ³	
Methyl isobutyl ketone	108-10-1	2013	1.0	0.10	mg/m ³	
Terpenes						
Σ Monocyclic monoterpenes (limonene) ^[1]	5989-27-5	2010	10	1.0	mg/m ³	S, L
α-pinene	80-56-8	2026	1.0	0.50	mg/m ³	

Others						
Benzothiazole	95-16-9	2020	-	15	µg/m ³	V
Nitrogen dioxide	10102-44-0	2018	0.25	0.080	mg/m ³	60 min
2-Butanone oxime	96-29-7	2015	60	20	µg/m ³	
1-Methyl-2-pyrrolidone	872-50-4	2014	1.0	0.10	mg/m ³	
Σ Cyclic dimethylsiloxanes D ₃ -D ₆	various ^[1]	2011	4.0	0.40	mg/m ³	G
Σ Diisocyanates ^[1]	various ^[1]	2000	^[1]	^[1]	mg/m ³	G
Mercury (as metallic vapour)	7439-97-6	1999	0.35	0.035	µg/m ³	

Source: German Environment Agency (UBA)

The values in the current corresponding publications are valid.

Values correspond to the AIR rounding rules for indoor air guide values, March 2020.

[1] See corresponding publication

[2] Year of publication in Bundesgesundheitsblatt

[3] Remarks: G (details on substance spectrum see in the respective publications); L (guiding substance); R ($\sum Ri = Ci/RWi$);

S (value refers to stereoisomers mixtures as for single stereoisomers); V (preliminary); times given for averaging periods deviate from the usual long-term value

[4] Conversion factors for ppm in mg/m³ or µg/m³ see corresponding publication