



Physical Parameter and List of Indoor Air Contaminant and Acceptable Limits
(<https://www.dosh.gov.my/index.php/chemical-management-v/indoor-air-quality>)

Table 1: Acceptable range for specific physical parameters

Parameter	Acceptable range
(a) Air temperature	23 – 26 °C
(b) Relative humidity	40-70%
(c) Air movement	0.15 – 0.50 m/s

Table 2: List of indoor air contaminants and the acceptable limits

Indoor Air Contaminants	Acceptable limits		
	ppm	mg/m ³	cfu/m ³
<u>1. Chemical contaminants</u>			
(a) Carbon monoxide	10	-	-
(b) Formaldehyde	0.1	-	-
(c) Ozone	0.05	-	-
(d) Respirable particulates	-	0.15	-
(e) Total volatile organic compounds (TVOC)	3	-	-
<u>2. Biological contaminants</u>			
(a) Total bacterial counts	-	-	500*
(b) Total fungal counts	-	-	1000*
<u>3. Ventilation performance indicator</u>			
(a) Carbon dioxide	C1000	-	-

Notes:

- For chemical contaminants, the limits are eight-hour time-weighted average airborne concentrations.
- mg/m³ is milligrams per cubic meter of air at 25° C and one atmosphere pressure.
- ppm is parts of vapour or gas per million parts of contaminated air by volume.
- cfu/m³ is colony forming units per cubic meter.
- C is the ceiling limit that shall not be exceeded at any time. Readings above 1000ppm are indication of inadequate ventilation.
- *excess of bacterial counts does not necessarily imply health risk but serve as an indicator for further investigation.