

TVOC

The Total Volatile Organic Compound level is a measurement of the sum of all the volatile organic compounds (VOC's) found in an air sample.

The TVOC level does not distinguish between chemicals that are toxic and those that are not.

Most common examples of volatile organic compounds are:

- Acetone
- Benzene
- Ethylene glycol
- Formaldehyde
- Methylene chloride
- Perchloroethylene
- Toluene
- Xylene
- 1,3-butadiene

There are no standards for TVOC levels but as a guideline see table below:

TVOC Level $\mu\text{g}/\text{m}^3$	
< 300	Low
300 -500	Acceptable
500-1000	High acceptable
>1000	High

Numbers above adhere to the quality of air inhaled by people. Acceptable levels for museum artefacts should be determined by curators/conservators.

North America:
Keepsafe Systems Ltd
www.keepsafe.ca
Canada

Europe:
Long Life for Art
www.llfa.de
Germany
CEAM Group srl
www.ceamgroup.com
Italy

Asia, Oceania:
Relicase Systems LTD
www.relicase.com
China
Tashco Systems Pty Ltd
www.tashcosystems.com.au
Australia

Turkey:
Fibula Mimarlik Tasarim Ltd.
www.fibu.la
Turkey