



GB/T 23986-2009

Paints and varnishes - Determination of volatile organic compound (VOC) content - Gas chromatographic method

色漆和清漆 挥发性有机化合物(VOC)含量的测定 气相色谱法

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Paints and varnishes - Determination of volatile organic compound (VOC) content - Gas chromatographic method

1 Scope

This standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

This standard specifies a method for the determination of the volatile organic compound (VOC) content of paints, varnishes and their raw materials. This standard is preferred if the expected VOC content is greater than 0.1 % by mass and less than 15 % by mass. When the VOC content is greater than 15 % by mass, the less complicated method given in GB/T 23985 may be used.

This method assumes that the volatile matter is either water or organic. However, other volatile inorganic compounds can be present and might need to be quantified by another suitable method and allowed for deduction in the calculations.

2 Normative References

The following normative documents contain provisions which, through reference in this text, constitute provisions of this standard. For dated references, subsequent amendments (excluding corrections), or revisions, of any of these publications do not apply to this standard. However, parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative documents referred to applies.

GB/T 3186 Paints, varnishes and raw materials for paints and varnishes - Sampling (GB/T 3186-2006, ISO 15528: 2000, IDT)

GB/T 6283 Chemical products - Determination of water - Karl Fischer method (general method) [GB/T 6283-1986, eqv ISO 760: 1978, Determination of water - Karl Fisher method (General method)]

GB/T 6750 Paints and varnishes - Determination of density - Pyknometer method (GB/T 6750-2007, ISO 2811-1:1997, Paints and varnishes - Determination of density - Part 1: Pyknometer method, IDT)

GB/T 20777 Paints and varnishes - Examination and preparation of samples for testing (GB/T 20777-2006, ISO 1513: 1992, IDT)

GB/T 21862.2 Paints and varnishes - Determination of density - Part 2: Immersed body (plummet) method (GB/T 21862.2-2008, ISO 2811-2:1997, IDT)

GB/T 21862.3 Paints and varnishes - Determination of density - Part 3: Oscillation method (GB/T 21862.3-2008, ISO 2811-3:1997, IDT)



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