



GB/T 34682-2017

Determination of volatile organic compound (VOC) content in reactive diluent containing coatings

含有活性稀释剂的涂料中挥发性有机化合物 (VOC) 含量的测定

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Translated by ChemLinked

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National Standard of the People's Republic of China

GB/T 34682-2017

Determination of volatile organic compound (VOC) content in reactive diluent containing coatings

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People's Republic of China
Standardization Administration of the People's Republic of China

Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed by the China Petroleum and Chemical Industry Federation.

This standard is under the jurisdiction of the National Technical Committee 5 on Coating Materials and Paints Standardization (SAC/TC 5).

The drafting units of this standard are as follows: CNOOC Changzhou Paint and Coatings Industry Research Institute Co., Ltd., Changzhou Guanghui New Material Research Institute Co., Ltd., Guangzhou Research Institute of Synthetic Materials, Zhejiang Yutong New Material Co., Ltd., Hezhong (Foshan) Chemical Co., Ltd., Shanghai Carpoly Paint Co., Ltd., Shenzhen Guangtian Environmental Protection Paint Co., Ltd., Zhejiang Feijing New Material Science&technology Co., Ltd., Guangdong Xiguiguang Curing Material Co., Ltd., Guangdong Yineng Nano Technology Co., Ltd., Xiamen Baianxing New Material Co., Ltd., and Heilongjiang Institute of Quality Supervision and Testing.

The main drafters of this standard are as follows: Wan Xueqi, Ji Junhong, Zhao Shaohong, Cheng Wenbin, Yang Yaliang, Ju Fulong, Chen Xinjian, Wang Shuang, Sun Lide, Yao Dongsheng, Yan Chaoming, Wu Yong, Xiao Qiaobing, and Gan Yongqiang.

Determination of volatile organic compound (VOC) content in reactive diluent containing coatings

1 Scope

This standard specifies the terms and definitions, principle, apparatus and equipment, samples, test procedures, and test data processing with regard to the determination of volatile organic compound (VOC) content in reactive diluent containing coatings.

This standard is applicable to the determination of VOC content in reactive diluent containing coatings. It is not applicable to the determination of VOC content in radiation curable coatings.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 3186 Paints, varnishes and raw materials for paints and varnishes - Sampling

GB/T 5206-2015 Paints and varnishes - Terms and definitions

GB/T 6750 Paints and varnishes - Determination of density - Pyknometer method

GB/T 6753.4-1998 Paints and varnishes - Determination of flow time by use of flow cups

GB/T 9278 Temperatures and humidities for conditioning and testing of paint specimens

GB 18582-2008 Indoor decorating and refurbishing materials - Limit of harmful substances of interior architectural coatings

GB/T 20777 Paints and varnishes - Examination and preparation of samples for testing

GB/T 21862.2 Paints and varnishes - Determination of density - Part 2: Immersed body (plummet) method

GB/T 21862.3 Paints and varnishes - Determination of density - Part 3: Oscillation method

GB/T 21862.4 Paints and varnishes - Determination of density - Part 4: Pressure cup method

3 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Volatile organic compound content; VOC content; VOCC

Mass of volatile organic compounds present in coatings determined under specified conditions.

[GB/T 5206-2015, definition 2.271]

3.2 Reactive diluents

Compounds that can dissolve or disperse film-forming substances, and are involved in film-forming reactions during film-forming process of coatings, forming non-volatile components that remain in the film.