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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3353-2012

Determination of halogenated hydrocarbons in adhesives used in building for import and expor. Gas chromatography

进出口建筑用粘接剂中卤代烃的测定 气相色谱法

(English Translation)

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Foreword

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

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. Xiamen, People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the import and export construction adhesive 8 kinds of halogenated hydrocarbons (methylene chloride, 1,1-dichloroethane, chloroform, 1,2-dichloroethane Alkyl, 1,1,1-trichloroethane, tetrachloromethane, trichlorethylene, 1,1,2-trichloroethane) content by gas chromatographic method.

This standard applies to the import and export construction adhesive methylene chloride, 1,1-dichloroethane, chloroform, 1,2-dichloroethane, 1,1,1-tris Dichloroethane, tetrachloromethane, trichlorethylene, 1,1,2-trichloroethane and determination of the content.

Principle 2

Sample ultrasonic extraction with ethyl acetate, the extract was filtered by gas chromatography - electron capture detector measuring method. According to the test substance Retention time qualitative and quantitative internal standard.

3 Reagents and materials

Unless otherwise specified, the reagents used were of analytical grade.

3.1
ethyl acetate. chromatography.

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3.2
dichloromethane (CAS No. 75-09-2). purity >=97%.

3.3
Chloroform (CAS No. 67-66-3). purity >=97%.

3.4
carbon tetrachloride (CAS No. 56-23-5). purity >=97%.

3.5 1,1-dichloroethane (CAS No. 75-34-3). purity >=97%.

3.6 1,2-dichloroethane (CAS No. 107-06-2). purity >=97%.

3.7 1,1,1-trichloroethane (CAS No. 71-55-6). purity >=97%.

3.8 1,1,2-trichloroethane (CAS No. 79-00-5). purity >=97%.

3.9
Trichloroethylene (CAS No. 79-01-6). purity >=97%.

3.10
bromoform (CAS No. 75-25-2). purity >=97%.

3.11
Standard stock solution (500mg/L). Weigh accurately dichloromethane (3.2), chloroform (3.3), carbon tetrachloride (3.4), 1,1-dichloroethane Dioxane (3.5), 1,2-dichloroethane (3.6), 1,1,1-trichloroethane (3.7), 1,1,2-trichloroethane (3.8) and trichlorethylene (3.9) each 0.25g, are accurate to 0.0001g, set 500mL flask, diluted with ethyl acetate (3.1) to the mark, shake well. This solution was left 0 °C ~ 4 °C can be stored in the refrigerator for two months.

3.12
internal standard stock solution. Weigh accurately bromoform (3.10) 0.10g, accurate to 0.0001g, set 100mL flask with acetic acid Ethyl ester (3.1) diluted to the mark, formulated at a concentration of 1000mg/L of internal standard stock solution. This solution was placed 0 °C ~ 4 °C refrigerator insurable Deposit two months.

3.13
mixed standard working solution. Pipette appropriate amount of each stock standard solution (3.11), adding an appropriate amount of internal standard stock solution (3.12), with ethyl (3.1) diluted to a mixed standard working solution suitable concentration.

The organic phase was 3.14 membrane. 0.45μm.

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