

ICS 71.080.15

CCS G17



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 14326-2009

Replacing GB/T 14326-1993

Determination of carbon disulfide content in benzene

苯中二硫化碳含量的测定方法

Issued on: July 8, 2009

Implemented on: April 1, 2010

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

This standard replaces GB/T 14326-1993 "Determination of benzene carbon disulfide content." This standard and GB/T 14326-1993 compared to the main changes are as follows:

- Increasing the normative references;
- Use of legal units of measurement. The standard proposed by China Iron and Steel Association. This standard is under the jurisdiction of the National Steel Standardization Technical Committee. This standard was drafted. Wuhan University of Science and Technology, Metallurgical Industry Information Standards Institute. The main drafters of this standard. Zhao Minlun, Ho Xuan-ming, Chen Xiaoxia, Zhang Shaochun, Sun Wei. This standard replaces the standards previously issued as follows:
 - GB/T 14326-1993. Determination of carbon disulfide content in benzene

1 Scope

GB/T 14326-2009 is the Chinese national standard on determination of carbon disulfide content in benzene, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 8 July 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 April 2010. Classification: ICS 71.080.15, CCS G17. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the principles of the benzene carbon disulfide content determination, reagents, apparatus, sampling, test preparation, test procedures and test errors. This standard applies to the determination of benzene content in carbon disulfide.

Measurement range. content 0.0001g/100mL ~ 0.0006g/100mL Range benzene; also suitable for use as toluene or benzene carbon disulfide content was diluted to the range of benzene.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 684 chemical reagent toluene

GB/T 690 chemical reagent benzene

GB/T 1999 coking oil products sampling methods

GB/T 8170 repair value expressed about the rules and limit values judgment

GB/T 9977 coking products term

HG/T 3486 Chemicals diethylamine YB/T 5155 Determination of coking products General Principle

3 Benzene, carbon disulfide and diethylamine, the reaction of copper acetate orange diethyl dithiocarbamate copper, spectrophotometric Determination. Reaction equation is. $\text{CS}_2 + (\text{C}_2\text{H}_5)_2\text{NH} \rightarrow (\text{C}_2\text{H}_5)_2\text{NCSS}_2\text{H}$ (diethyl dithiocarbamate) $2 (\text{C}_2\text{H}_5)_2\text{NCSS}_2\text{H} + \text{Cu} (\text{C}_2\text{H}_3\text{O}_2)_2 \rightarrow 2 [(\text{C}_2\text{H}_5)_2\text{NCSS}_2]_2\text{Cu} + 2\text{CH}_3\text{COOH}$

4 Reagents

4.1 Carbon disulfide. AR.

4.2 diethylamine. HG/T 3486 AR.

4.3 Benzene. GB/T 690 AR, the absorbance is not greater than 0.005.

4.4 Toluene. GB/T 684 AR, the absorbance is not greater than 0.005. Copper acetate 4.5. AR.

4.6 copper acetate solution. 0.03g of copper acetate was dissolved in 100mL anhydrous ethanol.

5 Instruments

5.1 Spectrophotometer. wavelength of 400nm ~ 700nm.

5.2 Cuvette. 1cm.

5.3 mill mouth cylinder. 50mL. Pipette 5.4. 1mL, 10mL, 25mL.

5.5 Buret. 5mL, 25mL.

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