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

GB/T 47092-2026

**Technical specification for producing ethylene glycol from coke
oven gas**

焦炉煤气制取乙二醇技术规范

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Optical cavity ring-down spectrometry
- 4 Quartz Crystal Oscillation Method

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the China Iron and Steel Association. This document was drafted by: Shanxi Jinan Iron and Steel Group Co., Ltd., Jinan Iron and Steel Group Co., Ltd., and Hebei Zongheng Group Fengnan Iron and Steel Co., Ltd. Limited Company, Metallurgical Industry Planning and Research Institute, China Circular Economy Association, Southwest Chemical Research and Design Institute Co., Ltd., Shangqiu Guolong New Materials Co., Ltd. company. The main drafters of this document are. Zhang Tianfu, Wang Shuhua, Huo Dongmei, Wang Zhengbo, Xiao Bangguo, Guo Zhanqiang, Feng Fan, Wu Luping, Li Feng, and Xue Zhiqiang. Li Yanzhi, Li Shouhu, Zhang Lina, Li Lin, Liu Junxia, Chen Bing, Liao Chong, Duanmu Xiangci. Technical Specifications for Ethylene Glycol Production from Coke Oven Gas

1 Scope

GB/T 47092-2026 is the Chinese national standard covering making ethylene glycol out of coke oven gas - a steelworks by-product that used to be burned, converted through syngas to a polyester feedstock, with the purification, the process conditions and the product quality required. First edition. It was issued on 28 January 2026 and has been in force since 1 August 2026, as a first edition. The document is under the responsibility of the China Iron and Steel Association. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the principles and processes, technical requirements, resource recycling and environmental protection requirements, and operation and maintenance of

ethylene glycol production from coke oven gas. Maintenance describes verification methods such as monitoring and detection. This document applies to the construction, renovation, and management of projects that use coke oven gas to produce ethylene glycol.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 1576 Industrial Boiler Water Quality

GB/T 4649 Industrial Ethylene Glycol

GB/T 5832.1 Gas analysis - Determination of trace moisture - Part

3 Optical cavity ring-down spectrometry

GB/T 5832.4 Gas Analysis - Determination of Trace Moisture - Part

4 Quartz Crystal Oscillation Method

GB/T 12208 Method for Determination of Components and Impurities in Manufactured Gas

GB 18597 Standard for Pollution Control of Hazardous Waste Storage

GB 18599 Standard for Pollution Control of General Industrial Solid Waste Storage and Landfill

GB/T 28901 Gas Chromatographic Analysis Method for Components of Coke Oven Gas

GB/T 38927 Technical Specification for Methanol Production from Coke Oven Gas

GB/T 50050 Design Code for Industrial Circulating Cooling Water Treatment