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

GB/T 46380-2025

Electronic-grade N-methyl-2-pyrrolidone

电子级N-甲基-2-吡咯烷酮

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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 National Technical Committee on Standardization of Semiconductor Equipment and Materials (SAC/TC203). This document was drafted by: Jingrui Electronic Materials Co., Ltd., Shanghai Integrated Circuit Materials Research Institute Co., Ltd., and Suzhou Laboratory. Binzhou Yuneng Electronic Materials Co., Ltd., Zhejiang Liansheng Chemical Co., Ltd., China Electronics Technology Standardization Institute, Shanghai Institute of Computing Technology Measurement and Testing Technology Research Institute, Hubei Xingfu Electronic Materials Co., Ltd., Jingrui New Energy Technology Co., Ltd., and Xinlian Electronic Materials Technology Co., Ltd. Limited Liability Company, Xi'an Geely Electronic New Materials Co., Ltd., Xinmaiqi Materials Co., Ltd., and Lianshi New Materials (Suzhou) Co., Ltd. Limited Liability Company, Chongqing Zhongrun New Materials Co., Ltd., China Salt Anhui Hongsifang Co., Ltd., Jiangxi Shengyuan New Materials Co., Ltd., Shandong Changxin Chemical Technology Co., Ltd., Tianjin Muhua Qingyan Technology Co., Ltd., Hubei Jinquan New Materials Co., Ltd., Tianjin Zhongfu Environmental Protection Technology Co., Ltd. Technology Co., Ltd., and Mianyang Aisa Electronic Materials Co., Ltd. The main drafters of this document are. Liu Bing, Huang Junqun, Xu Wentao, Song Yanlei, Yao Su, Cao Kewei, Wang Honghua, Qian Senlin, Zou Yuechao, and Li Chunhua. Li Shaoping, Xu Yibin, Zheng Xiangfei, Feng Yanan, Yang Xiao, Nie Xinyu, Shi Zeyuan, Ouyang Keyin, Zhao Junsha, Gao Yiming, Wu Yiran, Liu Yun, Yan Guangxue Zheng Beibei, Wang Qin, Jiang Xiaoqiang, Zhang Baoshuai, Cao Lü, Li Lu, Cheng Ye, Li Renjun, Song Kai, Fang Fei, Liu Baoshun, Zhao Wei, Li Feng, Di Jiandong, Zheng Xiaozhou Feng Weiwen. Electronic grade N-methyl-2-pyrrolidone

1 Scope

GB/T 46380-2025 is the Chinese national standard covering NMP at semiconductor purity - the water and metal ion limits measured in parts per billion, the particle count, the colour and the assay, for a solvent used in photoresist stripping and in battery electrode slurries. First edition, and it belongs with the NMP recovery standard GB/T 46839-2025. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

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 601 Preparation of Standard Titration Solutions for Chemical Reagents

GB/T 602 Preparation of standard solutions for the determination of impurities in chemical reagents

GB/T 603 Preparation of reagents and products used in chemical reagent test methods

GB/T 6324.6 Test methods for organic chemical products - Part

GB/T 27563-2011 Industrial N-methyl-2-pyrrolidone

GB/T 34672-2017 General Rules for the Determination of Chemical Reagents by Ion

Chromatography SJ/T 11637 General Rules for Inductively Coupled Plasma Mass

Spectrometry of Electronic Chemicals SJ/T 11638 Test methods for particulate matter in electronic chemicals

3 Terms and Definitions

The terms and definitions defined in GB/T 14666 apply to this document.

6 Determination of color of liquids - Tristimulus value colorimetric method

GB/T 6324.8 Test methods for organic chemical products - Part

8.Determination of moisture content in liquid products - Karl Fischer coulometric method

GB/T 6678-2003 General Rules for Sampling of Chemical Products

GB/T 6680 General Rules for Sampling of Liquid Chemical Products

GB/T 8170 Rules for rounding off numerical values and the representation and determination of limiting values

GB/T 9722 General Rules for Gas Chromatography of Chemical Reagents

GB/T 11446.1-2013 Electronic Grade Water

GB/T 14666 Analytical Chemistry Terminology

GB 12463 General Technical Requirements for Transport Packaging of Dangerous Goods

GB/T 25915.1-2021 Cleanrooms and related controlled environments - Part

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