



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

GB 1886.290-2016

**National Food Safety Standard -- Food Additives - 2-methyl
pyrazine**

食品安全国家标准 食品添加剂 2-甲基吡嗪

(English Translation)

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1 Scope

This standard applies to ethylenediamine and propylene oxide or methylglyoxal for raw materials of food additives 2-methyl pyrazine.

2.1 Chemical Name

2-methyl-pyrazine

Formula 2.2

C₅H₆N₂

2.4 Molecular Weight

94.12 (according to 2007 international relative atomic mass)

3.1 Sensory requirements

Sensory requirements shall comply with the requirements in Table 1.

Table 1 Sensory requirements

Project requires test methods Color status Colorless to pale yellow liquid the sample was placed in a cuvette, were visually observed Aroma of cocoa, nut-like aroma GB/T 14454.2

3.2 Physical and Chemical Indicators

Physical and chemical indicators should be consistent with the provisions of Table 2.

Table 2. Physical and chemical indicators

Item Index Test Method Methyl-pyrazine content, w /% ≥ 98.0 Appendix A Refractive index (20 °C) 1.501 ~ 1.509 GB/T 14454.4 Relative density (25 °C/25 °C) 1.007 ~ 1.033 GB/T 11540 Appendix A B.2.4 chromatographic oven temperature. 110 °C thermostat 10min, then linear temperature programmed from 110 deg.] C to 200 °C, a rate of 10 °C/min, and finally 200 °C thermostat 10min.

B.2.5 Inlet temperature. 230 °C.

B.2.6 Detector temperature. 230 °C.

B.2.7 Detector. flame ionization detector.

B.2.8 Carrier gas. nitrogen.

B.2.9 carrier gas flow rate. head pressure 60kPa.

B.2.10 Injection volume. about 0.2 μ L.

B.2.11 split ratio. 100.1.