UDC 547.264:54-41

JIS

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JAPANESE INDUSTRIAL STANDARD

2-Methyl-2-propanol

JIS K 8813-1991

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Translated

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JAPANESE INDUSTRIAL STANDARD J I S

2-Methyl-2-propanol

K 8813-1991

$(CH_3)_3COH$ *FW* : 74.12

1. Scope This Japanese Industrial Standard specifies 2-methyl-2-propanol(1) to be used as reagent (hereafter referred to as "this product").

Note (1) Another name t-butyl alcohol

Remarks: The standards cited in this Standard are shown in the following:

JIS K 0067	Testing methods for loss and residue of chemical products
JIS K 0068	Testing methods for water content of chemical products
JIS K 0117	General rules for infrared spectrophotometric analysis
JIS K 8001	General rules of testing methods for reagents

2. Properties This product shall indicate the following properties:

(1) Characteristics This product has special odor, is crystalline solid or colorless liquid that becomes solid in the cold. It is extremly soluble in water, ethanol, and diethylether. It is approximately 0.78 in specific gravity, approx. 25°C in freezing point and approx. 83°C in boiling point.

(2) Qualification When infrared absorption spectra of this product are measured according to JIS K 0117, main absorptions are confirmed at nearly 3360 cm^{-1}, 2970 cm^{-1}, 1470 cm^{-1}, 1200 cm^{-1}, 1020 cm^{-1}, 910 cm^{-1}, and 750 cm^{-1} in wave number. In this case, the preparation of sample is to be in accordance with 6.3 (1) (liquid film method) of JIS K 0117. An example of infrared absorption spectra when potassium bromide is used for window plate is indicated in Fig. 1.

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