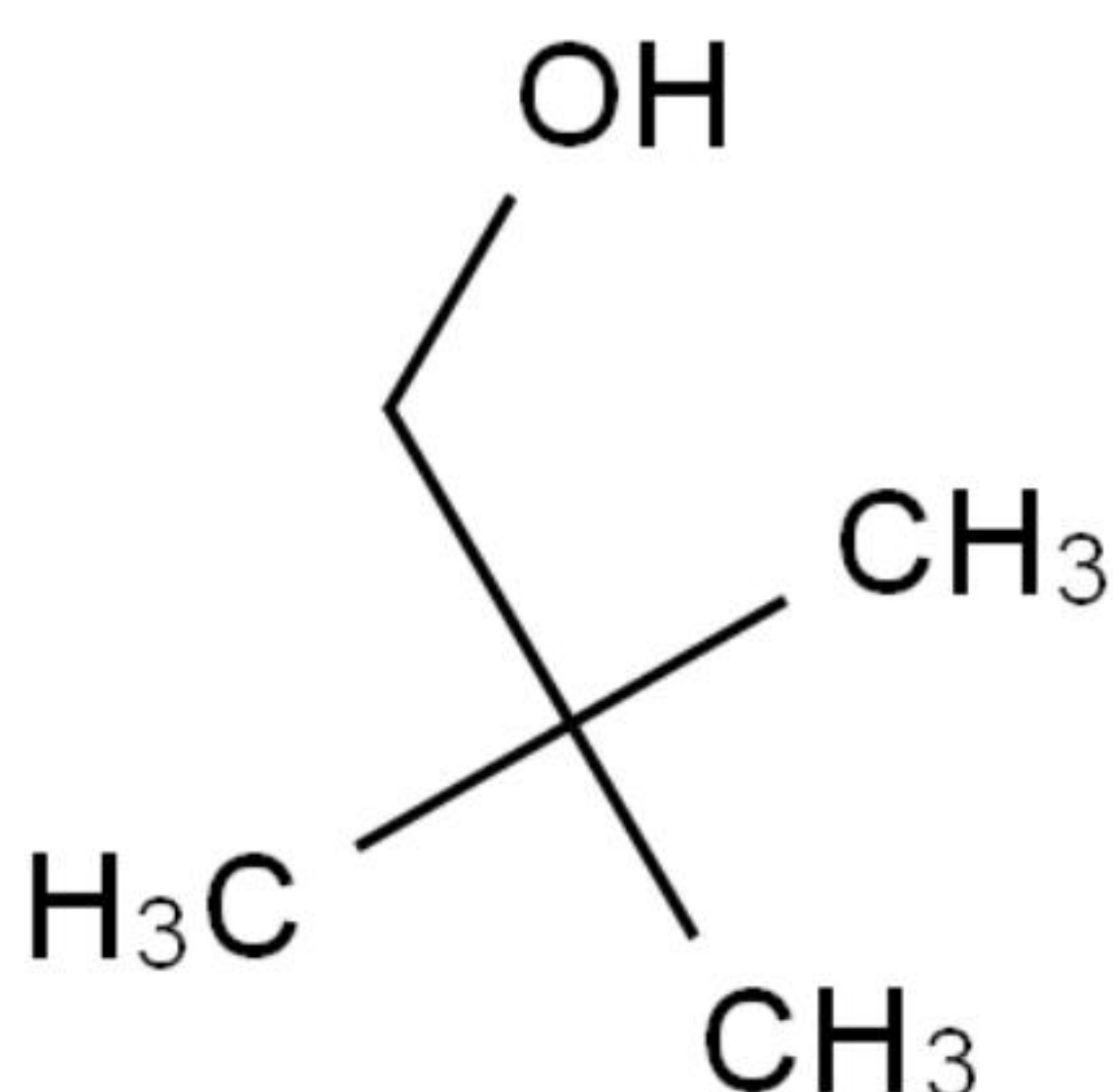


Certificate of Analysis

Reference Material & Standard

Product Name:	2,2-Dimethyl-1-Propanol	Catalogue Number:	CCEM500147
Synonyms:	N/A	Lot Number:	0414-RE-0081
CAS Number:	75-84-3	Expiry Date:	Apr 18, 2027
Molecular Formula:	C ₅ H ₁₂ O	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	88.15		
Chemical Structure:			



Warning:



Test Items	Method	Results
Appearance	Visual inspection	White Crystalline Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	97.593%
Water Content	Karl Fischer	0.4964%
Assay		97.1%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity GC (\%)} / 100\%$

Water Content is considered as absolute effect, GC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: 吴晓琳

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Apr 19, 2023

Date: Apr 20, 2023

Date: Apr 20, 2023

