

# Certificate of Analysis

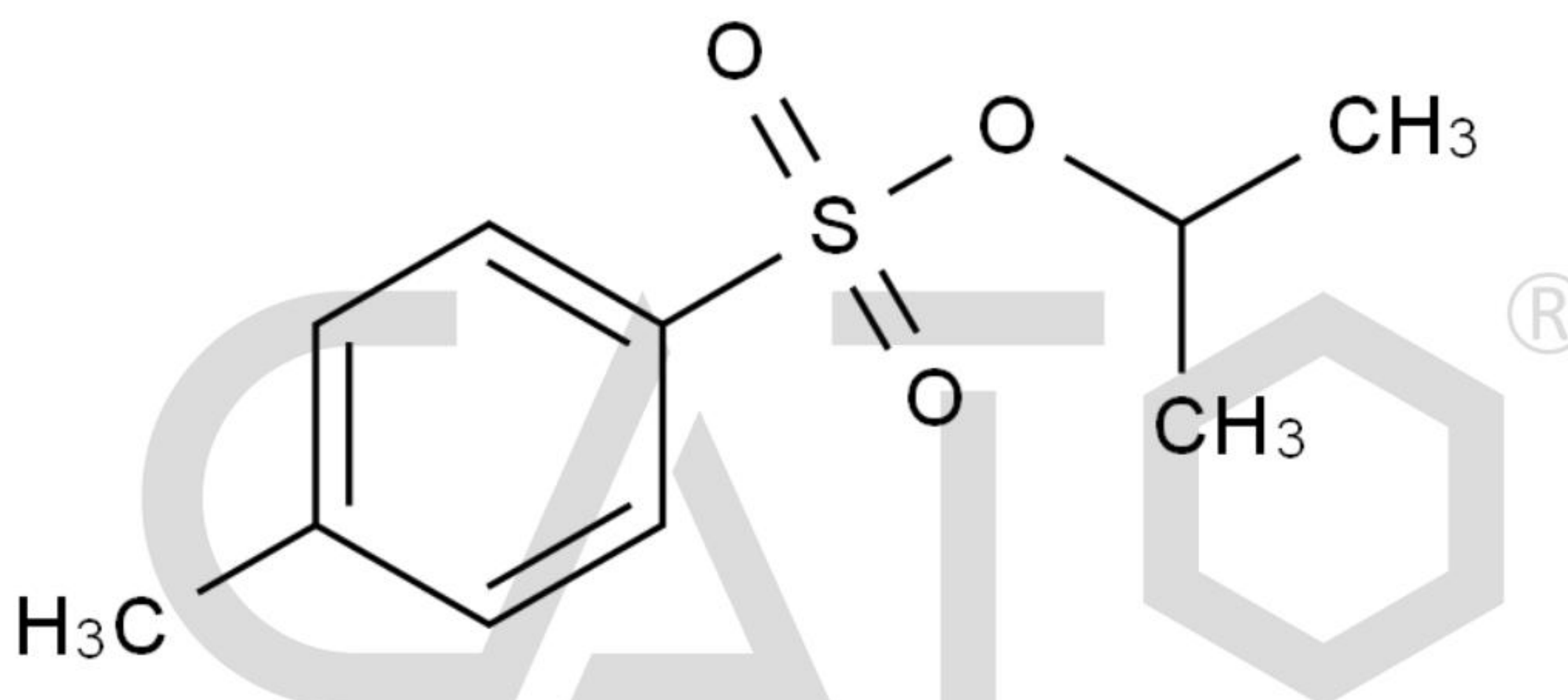
## Reference Material & Standard

|                    |                                                  |                   |                                           |
|--------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Isopropyl 4-Methylbenzenesulfonate               | Catalogue Number: | CCHM702428                                |
| Synonyms:          | N/A                                              | Lot Number:       | 0928-RD-0019                              |
| CAS Number:        | 2307-69-9                                        | Expiry Date:      | Oct 08, 2026                              |
| Molecular Formula: | C <sub>10</sub> H <sub>14</sub> O <sub>3</sub> S | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 214.28                                           |                   |                                           |

Warning:



Chemical Structure:



| Test Items     | Method            | Results       |
|----------------|-------------------|---------------|
| Appearance     | Visual inspection | Yellow Liquid |
| Identification | GCMS&HNMR         | Confirmed     |
| Purity         | HPLC              | 99.647%       |
| Water Content  | Karl Fischer      | 0.5514%       |
| Assay          |                   | 99.1%         |
| Uncertainty    |                   | ±2.0%         |

## Comment:

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

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

Water Content is considered as absolute effect, HPLC 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:

*Debia*

Reviewed by:

*Xenia*

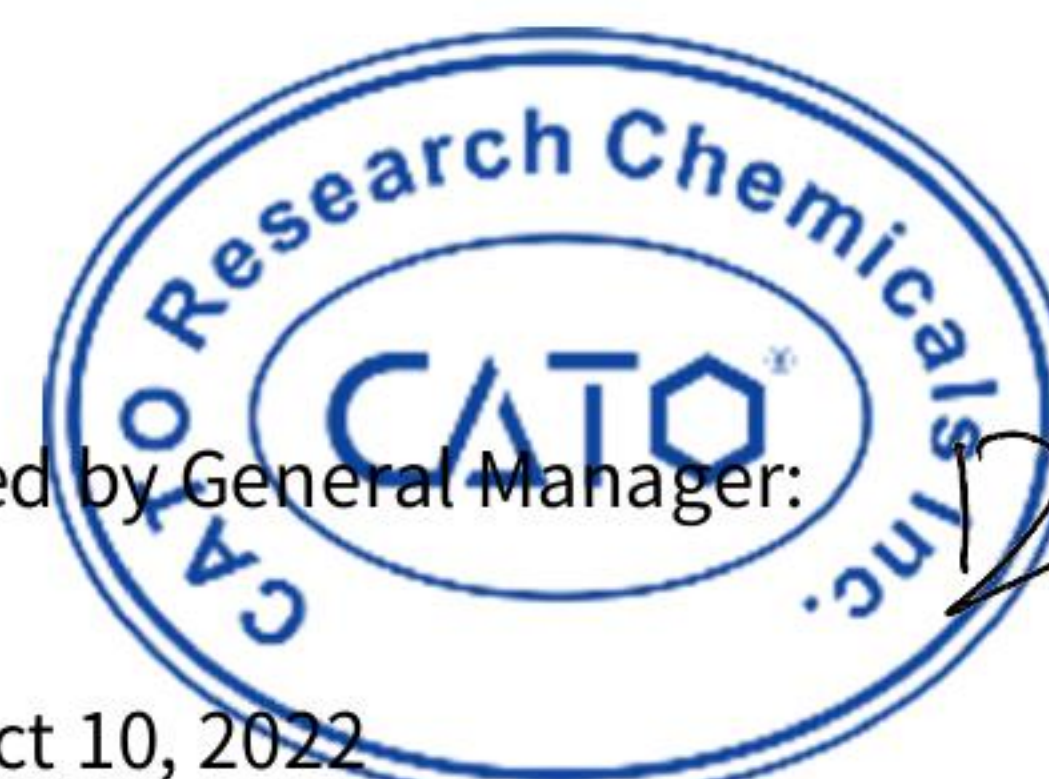
Approved by General Manager:

*David*

Date: Oct 09, 2022

Date: Oct 10, 2022

Date: Oct 10, 2022



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