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# **ProductInformation**

### 2-Propanol

Product Number **I9516** Store at Room Temperature

# **Product Description**

Molecular Formula: C<sub>3</sub>H<sub>8</sub>O Molecular Weight: 60.10 CAS Number: 67-63-0

Boiling Point: 82.5 °C (760 torr)<sup>1</sup> Density: 0.78505 g/ml (20 °C)

Synonym: isopropanol, secondary propyl alcohol,

dimethyl carbinol1

This product is designated as molecular biology grade and is suitable for the precipitation of nucleic acids.

Isopropanol is a polar organic solvent that is widely used in chemistry, biochemistry and molecular biology. Industrial applications include its use in antifreezes, quick-drying oils, and quick-drying inks, and as a solvent for gums, shellac, and essential oils. Isopropanol has been utilized as a solvent in the synthesis of solid phase acylating agents. 2

Protocols for the use of isopropanol in DNA precipitation from mammalian tissue, ethidium bromide extraction from DNA samples, and RNA isolation from cells and tissues have been reported. Isopropanol has been utilized in protein crystallization. The use of isopropanol to isolate retinoids from biological matrices for HPLC and HPLC-MS analysis has been reported. PARS analysis has been reported.

A mathematical analysis of isopropanol and other organic solvents to examine the selectivity of stationary phases and organic modifiers in reverse-phase HPLC systems has been published.<sup>9</sup>

# **Precautions and Disclaimer**

For Laboratory Use Only. Not for drug, household or other uses.

## **Preparation Instructions**

This product is miscible in water, alcohol, ether, and chloroform.<sup>1</sup>

#### References

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- 3. Molecular Cloning: A Laboratory Manual, 3rd ed., Sambrook, J. and Russell, D.W., CSHL Press (Cold Spring Harbor, NY: 2001), pp. 1.151, 6.23-6.30, 7.4-7.12, A8.27.
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- 7. Schmidt, C. K., et al., Chromatographic analysis of endogenous retinoids in tissues and serum. Anal. Biochem., **315(1)**, 36-48 (2003).
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- Du, C. M., et al., Characterizing the selectivity of stationary phases and organic modifiers in reversed-phase high-performance liquid chromatographic systems by a general solvation equation using gradient elution. J. Chromatogr. Sci., 38(11), 503-511 (2000).

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