

## Certificate of Analysis

(Representative Sample Certificate)

**Product Name:** Quaternium-31  
**INCI Name:** Dicyldimonium chloride, isopropyl alcohol  
**CAS Number:** 1812-53-9, 67-63-0  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 24 months from production date

Property	Specification	Analysis
Appearance @ 25°C	Clear liquid	Pass
Color (Gardner)	3.0 MAX	0.5
pH (5% 50/50 IPA/H <sub>2</sub> O)	6.5-8.5	7.7
% Quaternary	67.0-69.0%	68.78%
Moisture %	8.5-10.0%	9.36%

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

All data are as per our supplier.

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.