

## Bio-based Chemical Purification



### Introduction

Bio-based chemicals are fundamental components of future sustainable chemical production. Calgon Carbon Corporation has been treating bio-based chemicals since the 1960's and has the expertise and a full product line of activated carbon solutions developed for this market.

### Application

Bio-based chemicals have different specifications from industrial or technical grade, food grade, or pharmaceutical grade. Activated carbon is used to attain requirements for purity and the removal of odors and colors.

### Activated Carbon Solutions



- CAL<sup>®</sup>, SGL, and our Filtrasorb<sup>®</sup> products are commonly used to remove color and impurities
- CAL TR<sup>®</sup> 12x40 not only removes color, but is specifically designed for excellent odor removal in bio-organic applications and is a de-dusted product that minimizes fines in the treated product
- Cane-CAL<sup>®</sup> is an impregnated product that minimizes the sucrose from inverting to smaller sugars
- CPG<sup>®</sup> is an acid washed product used in organic streams that have a low pH such as organic acids (Succinic, citric, maleic, some amino acids), dextrose and fructose. CPG<sup>®</sup> typically removes color, odors and other impurities
- Acticarbon<sup>®</sup> BGE and BGX are high-purity wood-based chemically activated products typically used for removing color and other impurities from all types of bio-based chemicals.
- We have products that meet AWWA B604, ANSI/NSF Standard 61, and Food Chemical Codex Standards
- Our technical support team and R&D group will help you select the right activated carbon and optimize the system

### Activated Carbon Equipment Systems



- Calgon Carbon can provide a full turnkey solution for bio-organic purification applications
- We have over 40 years experience designing and manufacturing activated carbon systems in multiple configurations ranging from 1 to 1000's gpm
- Permanent or temporary, purchased or service

### Full Service



- Equipment installation and carbon exchanges
- Reactivate, recycle, and reuse your spent activated carbon
- Custom reactivation returns your carbon back to you
- Reactivation that is safe, economical, and sustainable