

## Calculation Outline of JCIA indices

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There are three main JCIA Indices, which are calculated by the following methods.

### 1. Trends in Main Chemical Products: Shipping Index of main chemical product

- Data source: Ministry of Economy, Trade and Industry "Current Survey of Production"
- Data used: Shipment volume of each major chemicals (32 product groups) is indexed versus the base year, the weighted average is calculated, and 3-month moving average is obtained.  
\*Items are selected as close as possible to the final product (industry) and capable of covering many fields. Also, pharmaceuticals are not included.
- Baseline year: 1 month average of 2020

### 2. Production Index Key User Customer Industries

- Data source: Websites of trade groups of the main demanding industries
- Data used: Production value of major products in each industry. If no data exists, the latest 3-month average production volume or shipping value is indexed to the base year, and the impact on the chemical industry and the weight to each industry scale are taken into consideration, and corrected by the corporate goods price index.
- Baseline year: 1 month average of 2020

### 3. Performances of Chemical Companies: Corporate Performance (Consolidated) Index

- Data source: Quarterly financial report segment information of each company
- Data used: Sales and operating income by segment of major chemical companies (29 companies)  
\*Segments are classified and summarized into "generic chemistry", "special chemistry", and "others" according to the content.
- Baseline year: 1 quarter average of 2020