

**SHOWA KAKO CORPORATION**

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**Quality Specification****Product : Citric Acid (crystal)**

<b>Grade</b>	JSFA8
<b>Chemical name</b>	Citric acid monohydrate
<b>CAS No.</b>	5949-29-1
<b>Chemical formula</b>	$C_6H_8O_7 \cdot H_2O$
<b>M.W.</b>	210.14

**【 Requirements 】**

<b>Test Item</b>	<b>Specification</b>
<b>Description</b>	Citric Acid occurs as colorless transparent crystals, granules, or lumps, or as a white powder. It is odorless and has a strongly acid taste.
<b>Identification test</b>	Passes the test
<b>Sulfate</b>	0.048 % max.(as $SO_4$ )
<b>Heavy metals</b>	10 $\mu$ g/g max.(as Pb)
<b>Calcium</b>	Passes the test
<b>Arsenic</b>	4.0 $\mu$ g/g max.(as $As_2O_3$ )
<b>Oxalate</b>	Passes the test
<b>Isocitric acid</b>	Passes the test
<b>Polycyclic aromatic hydrocarbon</b>	Passes the test
<b>Readily carbonizable substances</b>	Passes the test
<b>Residue on Ignition</b>	0.10 % max.
<b>Water Content</b>	8.8 % max.
<b>Assay</b>	99.5-100.5%