

# Product Specification

Jungbunzlauer

## Citric Acid Anhydrous

Food & Pharmaceutical Grade (conforms to Ph. Eur. / USP / FCC / EC)

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Product name	Citric acid anhydrous	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
EC No.	201-069-1	
CAS No.	77-92-9	
E-No.	E 330	
Characteristics	Colourless crystals or a white, crystalline powder; very soluble in water, freely soluble in ethanol (96%), sparingly soluble in ether	

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Odour	typical, practically odourless
Identification	conforms
Appearance of solution	clear and colourless
Clarity of solution (USP)	conforms
Colour of solution (USP)	conforms
Readily carbonisable substances (Ph. Eur. / EC / JP)	conforms
Readily carbonisable substances (USP / FCC)	conforms
Oxalic acid / oxalate	< 100 mg/kg
Sulphate	< 100 mg/kg
Heavy metals	< 5 mg/kg
Arsenic	< 1 mg/kg
Lead	< 0.5 mg/kg
Mercury	< 0.5 mg/kg
Calcium	< 30 mg/kg
Iron	< 3 mg/kg
Chloride	< 5 mg/kg
Organic volatile impurities (USP)	conforms
Residue on ignition (USP / FCC)	< 0.05 %
Sulphated ash	< 0.05 %
Water	< 0.50 %
Assay	99.7 - 100.3 %

We herewith confirm that this product meets the requirements of the latest edition of the European Pharmacopoeia (Ph. Eur.), the United States Pharmacopoeia (USP), the Food Chemical Codex (FCC) and of Commission Directive 96/77/EC. All analytical methods are in accordance with the latest requirements of the Ph. Eur., the USP, the FCC or equivalent methods. Test methods are available on request.