



# Escentials of Australia

## CERTIFICATE OF ANALYSIS

### Citric Acid

Cas No: 77-92-9

INCI Citric Acid anhydrous

General purpose cosmetic ingredient



Appearance White crystalline

Odour Nil

Molecular weight 192.12

Heavy Metals <10ppm

Aluminium <0.2 ppm

Cadmium <1ppm

Moisture % 0.10

Particle size 12- 40 mesh 85%

Batch 13...

Shelf Life 36 months. Store in a cool dark place

Compiled Jun 2020

<b>ANALYSIS</b>	<b>SPECIFICATION</b>
Appearance:	Solid wax pellets, white ivory colour
Odor:	characteristic
Refractive Index @ 20C	1.439
Alkali impurities BP98	0.1%
pH 1%	6.7
Melting point	(Range 47.0—55.0) 50 deg C approx
Hydroxyl Value (mgKOH/g)	185
Acid Value	0.1
Saponification Value	0.6

**Batch No 120...**  
**Shelf life 2 years**  
**Retest after one year**  
**Store in a cool dry place**



**ACID VALUE mg KOH/g 0.01**  
**Saponification value mg KOH/g 0.28**  
**Iodine Value g I<sub>2</sub>/100g 0.01**  
**Hydroxyl value mg KOH/g 213.71**  
**Titer Deg C 54.69**  
**Hydrocarbon % 0.06**  
**Moisture % 0.02**  
**Carbon chain**  
**C14: and lower 0.36**  
**C16: 29.15**  
**C18: 69.87**  
**C20: and higher 0.06**

**Batch No 99...**  
**Shelf life 2 years**  
**Retest after one year**

