



# COSA® CIP 90

**Description** Liquid, surfactant-containing detergent for the

pharmaceutical and cosmetic industry

Characteristics

high cleaning performance with low alkalinity

• suitable for CIP-systems

high soil-suspending power

## Subject to incoming goods control

Appearance: clear, yellowish liquid

Refraction index n<sub>D</sub>20: 1.3782 - 1.3842

Titration:

Use solution: 100 ml (1 % solution)

Titrant: 0.1 mol/l Hydrochloric Acid (HCl)

Endpoint: pH-value = 3.5

**Consumption:** 9.0 – 10.0 ml

% Alkalinity (expressed as Na<sub>2</sub>O):

% Alkalinity as  $Na_2O =$ 

(ml HCl to pH 3.5)\*(0.1 mol/l )\*(31)\*(100)

Sample weight [g] (1000)

% Alkalinity (expressed as Na<sub>2</sub>O): 2.79 - 3.10 %

### **Properties**

**Concentrate** Storage stability: 0 - 40 °C

**Density:** 1.03 - 1.07 g/cm<sup>3</sup>

P content: 0.34 %

**N content:** 0.47 %

**COD:**  $610 - 650 \text{ mg O}_2/\text{g}$ 

Flash point: not applicable

**Application solution pH:** 8.9 - 9.9

(1 %, 20 °C, deionized water)

Foam characteristics: non foaming > 50 °C,

suitable for CIP-systems

Material compatibility: COSA CIP 90 is, under the application described below,

compatible with

Metals steel, austenitic CrNi steels (quality at least DIN 1.4301 =

AISI 304)

Plastics
PE, PP, PVC, Teflon

**Application** 

COSA CIP 90 is suitable for the removal of organic soilings like ointment- and creme residues and can also be used for cleaning of a variety of inorganic residues in the

pharmaceutical and cosmetic industry.

Mode of application General CIP application (Homogenizers, pipelines, tanks

etc)

Concentration: 1 - 3 % COSA CIP 90

Temperature: 45 - 95 °C (circulating manner)

Contact time: depending on degree and type of soiling

Before switching on the spray devices, it is recommended to heat up the solution to > 50 °C to prevent the formation of foam. Concentration, temperature and cleaning time can be optimized by evaluation of respective cleaning trials.

Manual application

Concentration: 1 - 3 % COSA CIP 90

Temperature: 15 - 50 °C

Contact time: depending on degree

and type of soiling

Final rinse with water of minimum drinking water quality, ensuring all soil and product residues are removed.



#### Monitoring

#### **Concentration determination**

• **Titration** Receiving flask: 100 ml application solution

Titration solution: n/2 hydrochloric acid (HCI)

Indicator: Methyl orange

Titration factor: 0.49

Volume added in ml x 0.49 = % COSA CIP 90

Concentration control The dosage of COSA CIP 90 can be performed volume- or

time-proportional (e. g. by means of Ecolab Elados EMP-

dosage pumps).

**Safety** The relevant hazards identifications of **COSA CIP 90** are

given in the EC Safety Data Sheet. If any questions arise in this context please contact your Ecolab representative.

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