

## Test Certificate

IKA-Werke GmbH & Co. KG



Janke & Kunkel-Str. 10

79219 Staufen

Germany

We hereby confirm that the

**Benzoic Acid**  
(Charge: 4500064523 / 3033356)  
(Use by date: 05/2023)

of above-mentioned company was tested according to

**ISO 1928 (2009-06) / DIN 51900-3 (2001-05)**

and certify a

**Gross CV under NIST conditions of 26452 J/g.**  
Relative Standard Deviation: 0.03 %

30	bar	Oxygen Pressure
1	g	Sample Mass
1	g	Mass of Water
0,33	l	Volume of Bomb
25	°C	Temperature

**Gross CV under DIN conditions of 26465 J/g.**  
Relative Standard Deviation: 0.03 %

30	bar	Oxygen Pressure
1	g	Sample Mass
5	g	Mass of Water
0,26	l	Volume of Bomb
25	°C	Temperature

An overview of the test results determined by the laboratory of Ruhr Lab GmbH is illustrated on the following pages (until page 2). Further information can be requested at [Info@ruhr-lab.de](mailto:Info@ruhr-lab.de).

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*Daniel Haxter, Managing Director*  
Ruhr Lab GmbH  
Glückaufstr. 56  
45896 Gelsenkirchen

*Qualification of the Laboratory:*  
*Test Laboratory according to DIN EN ISO/IEC 17025: D-PL-21007-01-00*

*This Test Report shall not be reproduced except in full, without written approval of the laboratory.*

Description of the tested item:

Product: C 723 Benzoic Acid, Tablets (10 mm diameter x 6 mm thick, Mass: 500 mg)  
 Brand: IKA-Werke GmbH & Co. KG  
 Charge: 4500064523 / 3033356  
 Use by Date: 05/2023

Date of receipt:

26.07.2017

Date of Analysis:

28. - 31.07.2017

Test result with units of measurement:

Gross CV under NIST conditions of 26452 J/g. Average of 38 Determinations (76 Tablets).

30	bar	Oxygen Pressure
1	g	Sample Mass
1	g	Mass of Water
0,33	l	Volume of Bomb
25	°C	Temperature

\*Test results relate only to the items tested.

Deviations from the test method:

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Information on specific test conditions:

20 Determinations: IKA C 5000 Duo, adiabatic method.  
 18 Determinations: IKA C 2000, isoperibol method.

Statement on the estimated uncertainty of measurement:

Relative Standard Deviation: 0.03 %

Additional information:

The Certified Reference Material NIST SRM 39j (26.434 J/g) was used for the calibration of the calorimeters.