

TiO₂ 95%, V₂O₅ 5%

Milestone Application Note for Acid Digestion SK-Ceramic-019



Summary

This method represents a guideline for the microwave acid digestion of TiO₂ 95%, V₂O₅ 5% samples with the Milestone ETHOS UP and ETHOS EASY systems. This procedure may need to be optimized to match your specific analytical goals.

Instrumentation

Milestone ETHOS UP or ETHOS EASY microwave units, SK-15 high-pressure rotor, T1 temperature control. Options T2 temperature control and P1 or P2 pressure control.



Sample weight and reagents

Sample weight	Up to 250 mg
Reagents 1° Step	4 mL HNO ₃ 4 mL H ₂ SO ₄
Reagents 2° Step	1 mL HF 1 mL HCl

Microwave program

1° Step

Step	Time	T1	Power
1	00:15:00	220°C	1800 W*
2	00:15:00	220°C	1800 W*



2° Step

Step	Time	T1	Power
1	00:15:00	200°C	1800 W*
2	00:15:00	200°C	1800 W*

General precautions

*Use only up to 500 W for runs with 3 or less vessels simultaneously.

Always use hand, eye and body protection when operating with the microwave system.

Subject to change without notice.
For additional information please contact
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