

Appendix C

ACID DIGESTION

The acid digestion process for zeolite

1. Grinding the samples into fine powers and drying at 120°C.
2. Weighing 0.2 g of sample treated under step 1, putting it into a Teflon vessel and then adding 5 ml HF, 4 ml HClO₄ and 10 ml HCl (1:1 HCl:H₂O v/v).
3. Heating the Teflon vessel under the low temperature (<180°C), until the fog of HClO₄ vapors was observed.
4. Cooling the vessel and putting 2 ml H₂O₂. After waiting a few minutes, heat the vessel again until see the fog of HClO₄ vapors appears again.
5. Cooling it to the room temperature.
6. Adding 20 wt% HCl into the vessel to 25 ml.