

After 400°C the weight loss occurs due to the evaporation of unreacted materials which is involved in the sample. The DSC curve shows that the corresponding weight loss was observed. The weight loss of the sample was obtained 7.2%.

5. Conclusions

MgO nanoparticles were successfully synthesized using co-precipitation method. From XRD analysis average crystallite size of the sample was 18 nm. The average particle size was estimated 21 nm from particle size analyzer. The structure and morphology obtained by SEM. It observed that cubic structure and spherical granules shape. The weight loss was measured by TG-DTA curves as 7.2%. These above results showed that as prepared MgO particles were in the nano range.

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