

## **Florencite group - $\text{CeAl}_3(\text{PO}_4)_2(\text{OH})_6$**

Hardness: 5.5–6. Cleavage: Distinct/good. Insoluble in water. Partly soluble in HCl.

A group of similar minerals including florencite-Ce (florencite; stiepelmannite) -  $\text{CeAl}_3(\text{PO}_4)_2(\text{OH})_6$ , florencite-La -  $\text{LaAl}_3(\text{PO}_4)_2(\text{OH})_6$ , florencite-Nd -  $\text{NdAl}_3(\text{PO}_4)_2(\text{OH})_6$  and florencite-Sm -  $\text{SmAl}_3(\text{PO}_4)_2(\text{OH})_6$ , whose physical and chemical properties are expected to be similar. Formula given is for florencite-Ce.

### References

Mindat: <https://www.mindat.org/min-1560.html>

Handbook of Mineralogy: <https://www.handbookofmineralogy.org/pdfs/florencite-Ce.pdf>

Crawford, J. (2009) Solubility data on 646 common and not so common minerals.

[www.mindat.org/article.php/553/](http://www.mindat.org/article.php/553/)

Sinkankas, J. (1972) Gemstone & Mineral Data Book, 346 p. Winchester Press, New York.