

[NH₄]Er₃F₁₀*hP*56(186) *P*6₃*mc* – dc⁶b³a**NH₄Er₃F₁₀** [1]; KYb₃F₁₀ β [2]Structural features: Units of six edge-linked ErF₈ square antiprisms (an empty central cube) share vertices to form a 3D-framework.

Podberezskaya N.V. et al. (1976) [1]

Er₃F₁₀H₄N*a* = 0.81, *c* = 1.334 nm, *c/a* = 1.647, *V* = 0.7580 nm³, *Z* = 4

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
F1	12 <i>d</i>	1	0.336	0.009	0.15		non-colinear Er ₂
F2	6 <i>c</i>	. <i>m</i> .	0.116	0.884	0.314		non-colinear Er ₂
F3	6 <i>c</i>	. <i>m</i> .	0.216	0.784	0.473		non-colinear Er ₂
Er4	6 <i>c</i>	. <i>m</i> .	0.4943	0.5057	0.0207		square antiprism F ₈
F5	6 <i>c</i>	. <i>m</i> .	0.514	0.486	0.337		non-colinear Er ₂
F6	6 <i>c</i>	. <i>m</i> .	0.816	0.184	0.448		non-coplanar triangle Er ₃
Er7	6 <i>c</i>	. <i>m</i> .	0.8253	0.1747	0.278		square antiprism F ₈
F8	2 <i>b</i>	3 <i>m</i> .	¹ / ₃	² / ₃	0.051		non-coplanar triangle Er ₃
(NH ₄)9	2 <i>b</i>	3 <i>m</i> .	¹ / ₃	² / ₃	0.268		non-coplanar triangle F ₃
F10	2 <i>b</i>	3 <i>m</i> .	¹ / ₃	² / ₃	0.704		non-coplanar triangle Er ₃
(NH ₄)11	2 <i>a</i>	3 <i>m</i> .	0	0	0.0		non-coplanar triangle F ₃

Transformation from published data: -*x*, -*y*, -*z*; origin shift 0 0 0.985Experimental: single crystal, Weissenberg photographs, X-rays, *R* = 0.118

Remarks: Hydrogen atoms are not taken into consideration for Pearson symbol, Wyckoff sequence and atomic environments.

References: [1] Podberezskaya N.V., Baidina I.A., Borisov S.V., Belov N.V. (1976), J. Struct. Chem. 17, 122-126 (Zh. Strukt. Khim. 17, 147-152). [2] Aleonard S., Guitel J.C., Le Fur Y., Roux M.T. (1976), Acta Crystallogr. B 32, 3227-3235.