

La[SO₃NH₂]₃*hP*32(176) *P*6₃/*m* – ih³d**La(NH₂SO₃)₃** [1]

Structural features: Layers containing O₃S-NH₂ units and La atoms (the centers of the amidosulfate units and the La atoms form a distorted triangle mesh) in a Mg-type (h.c.p.) arrangement.

Wickleder M.S. (1999) [1]

H₆LaN₃O₉S₃*a* = 0.9835, *c* = 0.58803 nm, *c/a* = 0.598, *V* = 0.4926 nm³, *Z* = 2

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
O1	12 <i>i</i>	1	0.1464	0.4904	0.0452		single atom S
S2	6 <i>h</i>	<i>m</i> ..	0.0866	0.3969	¹ / ₄		tetrahedron O ₃ N
N3	6 <i>h</i>	<i>m</i> ..	0.1456	0.2673	¹ / ₄		single atom S
O4	6 <i>h</i>	<i>m</i> ..	0.3876	0.0828	¹ / ₄		single atom S
La5	2 <i>d</i>	-6..	² / ₃	¹ / ₃	¹ / ₄		tricapped trigonal prism O ₉
H6	12 <i>i</i>	1	0.117	0.219	0.158	0.5	
H7	6 <i>h</i>	<i>m</i> ..	0.247	0.326	¹ / ₄		

Transformation from published data: *y*,*x*,*-z*; origin shift 0 0 ¹/₂Experimental: single crystal, diffractometer, X-rays, *R* = 0.015, *T* = 293 K

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

References: [1] Wickleder M.S. (1999), *Z. Anorg. Allg. Chem.* 625, 1794-1798.