Al

Aluminum

Aluminum, syn [NR]

Rad.: CuKa1 λ: 1.5405 Filter: Ni Beta.M d-sp:

Cut off: Int.: Diffract. I/Icor.: 3.619

Ref: Swanson, Tatge, Natl. Bur. Stand. (U.S.), Circ. 539, I, 11 (1953)

Sys.: Cubic S.G.: Fm3m (225)

a: 4.0494 b: c: A: C:

α: β: γ: Z: 4 mp:

Ref: Ibid.

Dx: 2.699 Dm: SS/FOM: F_9=93(.0108, 9)

Color: Light gray metallic
Pattern taken at 25 C. CAS #: 7429-90-5. The material used for the NBS sample was a melting point standard sample of aluminum prepared at NBS, Gaithersburg, MD, USA. The chemical analysis (%): Si 0.011, Cu 0.006, Fe 0.007, Ti 0.0001, Zr 0.003, Ga 0.004, Mo 0.00002, S 0.0001, Al 99.9+ (by difference). Mineral species of doubtful validity, Am. Mineral., 65 205 (1980). Cu type. Gold group, gold subgroup. PSC: cF4. Mwt: 26.98. Volume[CD]: 66.40.

2θ	Int	h	k	l
38.505*	100	1	1	1
44.778*	47	2	0	0
65.194*	22	2	2	0
78.305*	24	3	1	1
82.519*	7	2	2	2
99.189*	2	4	0	0
112.183	8	3	3	1
116.723	8	4	2	0
137.700	8	4	2	2