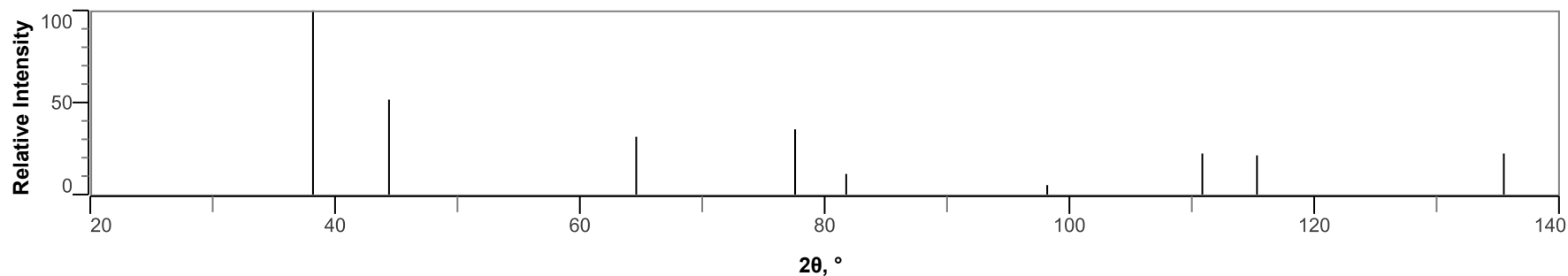


PDF Card No.: 00-004-0784 QM: S

Subfile name: Inorganic, Mineral, Alloy&Metal, Ceramic, Common Phase, Educational Pattern, Forensic, NBS Pattern						
Chemical formula:		Au				
Name:		Gold, syn		I/Ic (RIR) = 0.000		
Crystal system: Cubic		Space group: 225 : Fm-3m		Obs.density, g/cm <sup>3</sup> : 19.30000		
Lattice parameters:	a, Å	= 4.07860	b, Å	= 4.07860	c, Å	= 4.07860
	α, °	= 90.000	β, °	= 90.000	γ, °	= 90.000
	Volume, Å <sup>3</sup> = 67.847		Z		= 4.000	
	Reference : Swanson, Tatge. Natl. Bur. Stand. (U. S. ), Circ. 539I(1953)33.					
CAS: 7440-57-5						
Radiation: CuKa1		Wavelength, Å = 1.54056				
2θ range: 20.00000 - 140.00000						
Database comments: ANX: N. Analysis: Spectrographic analysis (%): Si 0.001, Ca 0.001, Ag 0.001. Melting Point: 1334.6-1336.2 K. Opaque Optical Data: Opaque mineral optical data on specimen from unspecified locality: RR2Re=71.6, Disp.=16, VHN100=53-58, Color values=.384, .391, 72.7, Ref.: IMA Commission on Ore Microscopy QDF. Sample Source or Locality: Sample purified at NBS, Gaithersburg, Maryland, USA and is about 99.997% Au. Temperature of Data Collection: 299 K. Unit Cell Data Source: Powder Diffraction.						



No.	2 $\theta$ , °	d-value	Norm. I.	h k l	No.	2 $\theta$ , °	d-value	Norm. I.	h k l
1	38.19	2.355	100.00	1 1 1	6	98.13	1.020	6.00	4 0 0
2	44.39	2.039	52.00	2 0 0	7	110.82	0.936	23.00	3 3 1
3	64.58	1.442	32.00	2 2 0	8	115.26	0.912	22.00	4 2 0
4	77.57	1.230	36.00	3 1 1	9	135.41	0.833	23.00	4 2 2
5	81.72	1.177	12.00	2 2 2					

2 $\theta$  are calculated with wavelength=1.54059Å