

Sphalerite, ZnS

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Unit-cell edges of natural and synthetic sphalerites

5.4093 5.4093 5.4093 90 90 90 F-43m

atom	x	y	z	Wyckoff
Zn	0	0	0	4a
S	0.25	0.25	0.25	4c

Raman Active Modes

WP	A ₁	A ₂	E	T ₁	T ₂
4c	1
4a	1

Total number of modes:

$$2T_2 = 2$$