

Fluorite, CaF₂

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Speziale S, Duffy T S

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Single-crystal elastic constants of fluorite (CaF₂) to 9.3 GPa

5.4631 5.4631 5.4631 90 90 90 Fm3m

atom	x	y	z	Wyckoff
Ca	0	0	0	4a
F	0.25	0.25	0.25	8c

Raman Active Modes

WP	A _{1g}	A _{1u}	A _{2g}	A _{2u}	E _u	E _g	T _{2u}	T _{2g}	T _{1u}	T _{1g}
8c	1	.	.
4a

Total number of modes:

$$1T_{2g} = 1$$