

Calcite, CaCO₃

Calcite

Graf D L

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Crystallographic tables for the rhombohedral carbonates

4.9900 4.9900 17.0615 90 90 120 R-3c

atom	x	y	z	Wyckoff
Ca	0	0	0	6b
C	0	0	0.25	6a
O	0.2578	0	0.25	18e

Raman Active Modes

WP	A _{1g}	A _{1u}	A _{2g}	A _{2u}	E _u	E _g
18e	1	-	-	-	-	3
6b	-	-	-	-	-	-
6a	-	-	-	-	-	1

Total number of modes:

$$1A_{1g} + 4E_g = 5$$