

Sodalite, Na₄Si₃Al₃O₁₂Cl

Sodalite

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American Mineralogist 89 (2004) 359-364

Sodalite: High-temperature structures obtained from synchrotron radiation and Rietveld refinements

8.88696 8.88696 8.88696 90 90 90 P-43n

atom	x	y	z	Wyckoff
Na	0.1779	0.1779	0.1779	8e
Al	0.25	0	0.5	6d
Si	0.25	0.5	0	6c
O	0.13974	0.15013	0.43895	24i
Cl	0	0	0	2a

Raman Active Modes

WP	A ₁	A ₂	E	T ₁	T ₂
24i	3	·	6	·	9
8e	1	·	2	·	3
6d	·	·	1	·	3
6c	·	·	1	·	3
2a	·	·	·	·	1

Total number of modes:

$$4A_1 + 10E + 19T_2 = 33$$