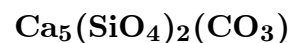


Parasprurrite



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Crystal Data: Monoclinic. *Point Group:* $2/m$. As intergrown crystals, up to 2 cm.
Twinning: Polysynthetic on {001}.

Physical Properties: *Cleavage:* Poor on {001}. Hardness = n.d. $D(\text{meas.}) = 3.00$
 $D(\text{calc.}) = 3.01$

Optical Properties: Transparent to translucent. *Color:* Colorless in thin section.
Optical Class: Biaxial (-). *Orientation:* $X = b$; $Y \wedge a = 30^\circ$; $Z \wedge c = 30^\circ$. $\alpha = 1.650$
 $\beta = 1.672$ $\gamma = 1.677$ $2V(\text{meas.}) = 47^\circ$

Cell Data: *Space Group:* $P2_1/a$. $a = 10.473(10)$ $b = 6.706(5)$ $c = 27.78(3)$
 $\beta = 90.58(7)^\circ$ $Z = 8$

X-ray Powder Pattern: Darwin, California, USA.
3.47 (100), 6.92 (78), 1.983 (63), 2.698 (48), 2.716 (42), 2.647 (39), 4.62 (37)

Chemistry:	(1)	(2)
SiO ₂	27.25	27.03
TiO ₂	0.02	
Al ₂ O ₃	0.37	
Fe ₂ O ₃	0.12	
MnO	0.02	
MgO	0.19	
CaO	62.78	63.07
Na ₂ O	0.03	
CO ₂		9.90
P ₂ O ₅	0.13	
LOI	8.97	
Total	99.88	100.00

(1) Darwin, California, USA; loss on ignition by TGA, taken as CO₂. (2) Ca₅(SiO₄)₂(CO₃).

Polymorphism & Series: Dimorphous with spurrite.

Occurrence: The dominant phase in a sequence of thermally metamorphosed siliceous carbonate rocks of the granulite facies.

Association: Gehlenite, vesuvianite, apatite, larnite.

Distribution: From near Darwin, Inyo Co., California, USA.

Name: From the Greek *para*, for *near*, and its relation to *spurrite*.

Type Material: n.d.

References: (1) Colville, A.A. and P.A. Colville (1977) Parasprurrite, a new polymorph of spurrite from Inyo County, California. *Amer. Mineral.*, 62, 1003–1005.