>>**Entry Name: Barium sodium niobium oxide ($Ba_2NaNb_5O_{15}$)**
Synonym(s): Barium sodium niobate ($Ba_2NaNb_5O_{15}$)

CAS Registry Number: 12323-03-4
$Ba_2NaNb_5O_{15}$

Molecular Formula: $Ba_2NaNb_5O_{15}$
Molecular Weight: 1002.167
Accurate Mass: 1003.255841
Percentage Composition: Ba 27.41%; Na 2.29%; Nb 46.35%; O 23.95%
General Statement: Disagreement in literature about space group
Source/Synthesis: Synth. from the solid soln. system $NaNbO_3/BaNb_2O_6$
Use/Importance: Tungsten-bronze ferroelectric
Physical Description: Solid
Melting Point: Mp 1483°

Aldrich: 41494-8

References:

Bobb, L.C. *et al.*, *J. Appl. Crystallogr.*, 1969, **2**, 189, *(struct)*
Scott, B.A. *et al.*, *Mater. Res. Bull.*, 1969, **4**, 107, *(synth, dta, struct)*
Burns, G. *et al.*, *Solid State Commun.*, 1969, **7**, 933, *(Raman)*
Ross, S.D., *J. Phys. (Paris)*, 1970, **3**, 1785, *(Raman, struct)*
Bobb, L.C. *et al.*, *Ferroelectrics*, 1971, **2**, 217, *(Raman)*
Toledano, J.C. *et al.*, *Ferroelectrics*, 1987, **73**, 249, *(use)*
Dolinsek, J. *et al.*, *Solid State Commun.*, 1989, **70**, 1077, *(Na-23 nmr)*
Shimazu, M. *et al.*, *Powder Diffr.*, 1990, **5**, 125, *(synth, struct)*