



>>Entry Name: Sodium antimonate ($\text{SbO}_3^{(-)}$), 11Cl

Synonym(s): Antimonic acid (HO_3Sb) sodium salt, 9Cl, 8Cl. Sodium metaantimonate

CAS Registry Number: 15432-85-6

Related CAS Registry Numbers(s): 30718-75-3 80512-29-4

NaSbO_3

Molecular Formula: NaO_3Sb

Molecular Weight: 192.738

Accurate Mass: 191.878333

Percentage Composition: Na 11.93%; O 24.90%; Sb 63.17%

Source/Synthesis: From $\text{Na}_2\text{O}_2 + \text{Sb}_2\text{O}_3$ at 480-710°, or from Sb_2O_4 (or Sb_2O_5) at 360-690°. Also from Na_2CO_3 , $\text{NaClO}_3 + \text{Sb}_2\text{O}_3$

>>Derivative: Trihydrate

$^{7(-)}$, HTG69-E

>>Variant: α -form

Molecular Formula: NaO_3Sb

Molecular Weight: 192.738

Accurate Mass: 191.878333

Percentage Composition: Na 11.93%; O 24.90%; Sb 63.17%

Source/Synthesis: Synth. from $\text{Sb}_2\text{O}_3 + \text{Na}_2\text{CO}_3$ at 460-640° for 44 hr.; or from sodium oxalate + Sb_2O_3 at 760-1035° (85 hr.); or by heating Monosodium antimonate ($\text{SbO}_6^{7(-)}$) HTG69-E in air at 1070° (8hr.)

Melting Point: Mp 1555°

>>Variant: β -form

Molecular Formula: NaO_3Sb

Molecular Weight: 192.738

Accurate Mass: 191.878333

Percentage Composition: Na 11.93%; O 24.90%; Sb 63.17%

Source/Synthesis: Said to be formed by heating α -form with KF at 1200° for 8 days. May not be a pure form

References:

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