Molecular Structure of 506-68-3 (Cyanogen bromide)

**Cyanogen bromide**

CAS No. 506-68-3

Synonyms: Bromocyanide; Bromine cyanide; Cyanobromide; Cyanogen monobromide, Cyanobromane

Typical Applications:

• reagent in molecular biology

• peptide mapping

• gold extraction and amino acid sequence analysis

• coupling reagent for phosphoramidate or pyrophosphate inter-nucleotide bonds in DNA duplexes.

• used in organic synthesis to prepare cyanamides, dicyanamides, cyanuric bromide, guanidines and hydroxylguanidines

• involved in the von Braun reaction, it gives disubstituted cyanamides by reacting with tertiary amines

• reacts with phenols to give the cyanate esters

Physical Properties:

Form and Appearance: Crystalline solid

Molecular Weight: 105.92

Specific Gravity: 2.015 @ 20ºC

Boiling Point: 61 – 62ºC

Solubility: Very soluble

Melting Point: 50 – 53ºC

Water Reactive: Not reactive

Chemical Formula:

BrCN

Specifications:

Purity/Analysis: 97% minimum by GC

Form and Appearance: Volatile white to light yellow solid. Very sharp

penetrating odor

Product Categories:

Inorganic cyanide compounds; Inorganic reagent; synthesis of guanidines; synthesis of hydroxyguanidines; synthesis of heterocyclic systems; synthesis of ureas; synthesis of thioureas

Availability:

Available for immediate shipment in commercial or packaged quantities