

## Bromochloroacetonitrile

## Chemical Properties

CAS No. :	83463-62-1
Formula:	C <sub>2</sub> HBrClN
Molecular Weight:	154.39
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Bromochloroacetonitrile is a chemical compound that is formed as a by-product during the chlorine disinfection process of water that contains natural organic material. This compound exhibits direct mutagenic activity and can induce DNA strand breakage.
Targets(IC50)	Others,DNA/RNA Synthesis
In vitro	Bromochloroacetonitrile (BCAN) stimulates the occurrence of sister chromatid exchanges within Chinese hamster ovary cells[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.4771 mL	32.3855 mL	64.771 mL
5 mM	1.2954 mL	6.4771 mL	12.9542 mL
10 mM	0.6477 mL	3.2386 mL	6.4771 mL
50 mM	0.1295 mL	0.6477 mL	1.2954 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Suzanne A. et al. The developmental toxicity of bromochloroacetonitrile in pregnant long-evans rats, International Journal of Environmental Health Research, 5:2, 175-188.

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