



# Scopolamine hydrobromide Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** Scopolamine hydrobromide

**Catalog No.:** CFN99709

**Cas No.:** 114-49-8

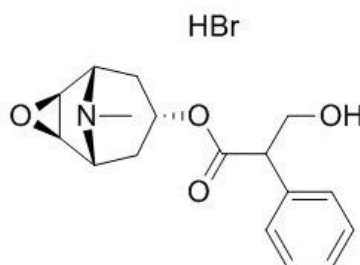
**Purity:** >=98%

**M.F:** C<sub>17</sub>H<sub>22</sub>BrNO<sub>4</sub>

**M.W:** 384.26

**Physical Description:** Powder

**Synonyms:** alpha.-(Hydroxymethyl)-,9-methyl-3-oxa-9-azatricyclo[3.3.1.0<sup>2,4</sup>]non-7-ylester, hydrobromide, [7(Benzeneacetic acid.



## [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

## [ Source ]

The herbs of *Atropa belladonna* L.

## [ Biological Activity or Inhibitors ]

Scopolamine hydrobromide can induce learning and memory impairment.<sup>[1]</sup>

Scopolamine hydrobromide nasal gel is a safe and promising therapeutic alternative to existing medications for motion sickness.<sup>[2]</sup>

Scopolamine hydrobromide and NaHCO<sub>3</sub> can be used to treat tetrodotoxin (TTX) poisoning.<sup>[3]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Acetonitrile-Sodium phosphate buffer solution (0.07 M sodium phosphate solution with 17.5 mM sodium dodecylsulfate adjusted to pH 6.0 with phosphoric acid solution) =30:70 ;

Flow rate: 0.9 ml/min;

Column temperature: 25 °C;

The wave length of determination: 207 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Chen X M, Zhu J B. *Chinese Journal of Clinical Pharmacology & Therapeutics*, 2005, 10(8):898-902.

[2] Cao S, Zhang Q, Jiang X. *Acta Pharm. Sin.*, 2007, 28(4):584-90.

[3] Xie K Q, Yu L H, Zhang L. *Acta Academiae Medicinae Shandong*, 2002(3).

[4] Zhang Y L, Li Y P. *China Journal of Chinese Materia Medica*, 2013, 38(19):3291-4.

## **[ Contact ]**

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