

# Chem-Impex International, Inc.

---

**Tel:** (630) 766-2112

**E-mail:** sales@chemimpex.com

**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

**Fax:** (630) 766-2218

**Web site:** www.chemimpex.com

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

---

## Certificate of Analysis

<b>Catalogue Number</b>	32442
<b>Lot Number</b>	003533-0649586-23
<b>Product</b>	<b>L-(-)-Norepinephrine (+)-bitartrate salt</b> L-Noradrenaline bitartrate monohydrate L-Arterenol bitartrate monohydrate
<b>CAS Number</b>	108341-18-0
<b>Molecular Formula</b>	$C_8H_{11}NO_3 \bullet C_4H_6O_6 \bullet H_2O$
<b>Molecular Weight</b>	337.28

---

<b>Appearance</b>	White to off-white crystalline powder
<b>Analysis by Mass Spectra</b>	[M+H] 169.8
<b>UV Ratios</b>	$\lambda$ max. 283, 224 nm
<b><math>^1H</math> NMR</b>	Conforms to structure
<b>Purity by TLC</b>	100%
<b>Storage</b>	Store at RT
<b>Remarks</b>	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager