



# N&R INDUSTRIES, INC

## Certification of Analysis

<b>Product Name</b>	<b>3-Amino-1-Adamantanol</b>		
<b>CAS No</b>	<b>702-82-9</b>		
<b>Molecular Formula</b>	<b>C10H17NO</b>	<b>Molecular Weight</b>	<b>167.25</b>
<b>Batch No</b>	<b>120729</b>	<b>Batch Weight</b>	<b>20KG</b>
<b>Manufacture Date</b>	<b>Jul 29, 2012</b>	<b>Expiry Date</b>	<b>Jul 28, 2014</b>

<b>Items</b>	<b>Specification</b>	<b>Results</b>
<b>Description</b>	<b>White or yellowish powder</b>	<b>White powder</b>
<b>Water</b>	$\leq 2.0\%$	<b>0.50%</b>
<b>Residue on ignition</b>	$\leq 0.5\%$	<b>0.11%</b>
<b>Assay (GC)</b>	$\geq 98.0\%$	<b>99.47%</b>
<b>Related substances</b>		
<b>Impurity A</b>	$\leq 0.5\%$	<b>Not detected</b>
<b>Impurity B</b>	$\leq 0.5\%$	<b>0.042%</b>
<b>Related substance</b>	$\leq 2.0\%$	<b>0.53%</b>
<b>Residual solvents</b>		
<b>Dichloromethane</b>	$\leq 600$ ppm	<b>Conforms</b>
<b>Methanol</b>	$\leq 3000$ ppm	<b>Conforms</b>
<b>Assay(Titration)</b>	<b>98.0% ~ 102.0%</b>	<b>99.92%</b>
<b>Identification (IR)</b>	<b>Concordant with the reference spectrum</b>	<b>conforms</b>
<b>Assay</b>	<b>98.5%~101.0%</b>	<b>99.8%</b>

**Conclusion: The product conforms with above specifications.**

**Q.C.: Niu Lanlan**

