

**Certificate of analysis**  
(EG) Nr. 1907/2006 (REACH)



**Certificate No.** C20144101  
**Specification No.** 1V 01-2013  
**Company Name** VAPE GmbH  
**Laboratories**

**CAST** 5898858144  
**CERF** CE-5898858  
**EORI** DE 2104601

**NICHT ZUR VERÖFFENTLICHUNG**

**Productname** : **NICOTINE 100%**  
**Charge** : 469102410129  
**Code-Number** : 54-11-5  
**CAS-Number** : 54-11-5  
**Formula** : C10H14N2  
**Formula Weight** : 162.23 g/mol  
**Suppliercode** : 10105  
**Retestdate** : 10-2018

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<b>TEST</b>	<b>SPECIFICATIONS</b>	<b>RESULT</b>
<b>Appearance</b>	Colorless, brownish viscous liquid volatile, hygroscopic	Confirmed
<b>Solubility</b>	Soluble, 1gm in 10 to 30ml in water miscible with anhydrous ethanol.	Confirmed
<b>Identification A</b>	Specific optical rotation	Complies by specific optical rotation
<b>Identification B</b>	Infrared absorption spectrophotometry comparing with Reference spectrum of Nicotine	Infrared absorption spectrophotometry compared with standard
<b>Appearance of Solution</b>	The solution is clear and intensely colored than reference solution Y5,BY5 or R5	The solution is clear and not more intensely colored than reference solution Y5
<b>Specific optical Rotation</b> (on anhydrous basis)	(-)140° to (-)152°	(-)148.5°
<b>Impurity A</b>	<=0,3%	<0.05% *
<b>Impurity B</b>	<=0,3%	<0.05% *
<b>Impurity C</b>	<= 0,3%	<0.05% *
<b>Impurity D</b>	<= 0,3%	0.08% *
<b>Impurity E</b>	<= 0,3%	<0.05% *
<b>Impurity F</b>	<= 0,3%	<0.05% *
<b>Impurity G</b>	<= 0,3%	<0.05% *
<b>Unspecified Impurities</b>	<= 0,10%	<0.05% *
<b>Total Impurities</b>	<=0,8%	0.08% *
<b>Water</b>	< 0,5	<0.10% *
<b>Assay on anhydrous substance</b>	99,0% - 101,0 %	<100.3%

\* Disregard limit of impurity is 0,05%

On the basis of above tests the material is found to:  
with the specification as per European Pharmacopoeia.  
Data as received from supplier.

**C O N F O R M**

**Approved by:** VAPE GMBH - Laboratory

Nabbenkamp 1  
27798 Hude  
Germany

Signature laboratory:

*H. Bartholomae*

Apotheker / Chemist (H. Bartholomae)



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