

**CERTIFICATE OF ANALYSIS /
Test Report 2.2 acc. to DIN EN 10204**

Honeywell Specialty Chemicals Seelze GmbH D-30926 Seelze
Wunstorfer Str. 40 Phone: (05137)999-235

Brenntag Nederland BV

**Chemieweg 9, Havennummer 4208
3197 KC Botlek Rotterdam**

Niederlande

Seelze, 19.12.2014/551337/14/26093

Order-No.: 0001493479
Customer-No.: 16416
Email : Synthalyse@brenntag.nl
Order-Code: **75180573**
Customer-Code: **10269525**

Quantity: 160 x 25.000 kg

Production date: 08.Dec.2014
Min. shelf life: 26.May.2017

Article/Product: 11016 - 10094118 Batch : **E342A** **NL01026365**

Aluminium chloride-6-hydrate extra pure, meets analytical specification of Ph. Eur., BP, USP

Parameter	Specification	Result
assay (calc.on the anhydrous basis)	95.0-102.0	100.3 %
assay	97.0-101.0	99.2 %
water (Karl Fischer)	42.0-48.0	45.4 %
pH (5 %, 20°C)	2.5-3.5	2.9
ammonium (NH ₄)	max. 0.01 <	0.01 %
arsenic (As)	max. 0.0004 <	0.0004 %
calcium (Ca)	max. 0.02	0.0004 %
iron (Fe)	max. 10 <	10 ppm
potassium (K)	max. 0.01 <	0.0004 %
magnesium (Mg)	max. 0.01	0.0001 %
sodium (Na)	max. 0.1 <	0.004 %
heavy metals (as Pb)	max. 10 <	10 ppm
sulfate (SO ₄)	max. 100 <	100 ppm
sulfate (SO ₄) USP	complying	complying
alkali+alkaline earth metals	max. 0.5 <	0.5 %
residual solvents	complying	complying
appearance of the solution	complying	complying
identity Ph. Eur	complying	complying

Identity, assay and impurities are complying to the monographs of the above mentioned pharmacopeias/codices.

- The minimum shelf life is based on the current knowledge and holds only for proper storage conditions in the originally closed flasks/ packages.
- We herewith confirm that the delivery is effected according to the technical delivery conditions agreed.
- Particular properties of the products or the suitability for a particular area of application are not assured.
- We guarantee a proper quality within our General Conditions of Sales.

**Honeywell
Specialty Chemicals
Seelze GmbH**


(Dr. Gaede)