

**Honeywell**  
CERTIFICATE OF ANALYSIS

**Honeywell Specialty Chemicals Seelze GmbH**  
Wunstorferstrasse 40  
Seelze, 30926  
Telefon: +49 5137 999-0  
[www.lab-honeywell.com](http://www.lab-honeywell.com)

**Brand:** Honeywell Riedel-de Haën™  
**Product:** 24103  
**Lot No:** J2970  
**Production date:** 24.Oct.2019  
**Expiry Date:** 31.Mar.2024

Ethanol puriss., absolute, sales not in Germany, 99.8% (GC)

Parameter	Specification	Units	Result	Units
assay (GC)	min. 99.8	Vol.%	>99.9	Vol.%
density (D 20/20)	0.790-0.791		0.790 - 0.791	
non-volatile matter	max. 0.01	%	<0.01	%
water (Karl Fischer)	max. 0.2	%	0.01	%
free acid (as CH3COOH)	max. 0.001	%	<0.001	%
aldehydes (as CH3CHO)	max. 0.005	%	<0.005	%
free alkali (as NH3)	max. 0.0005	%	<0.0005	%
methanol (GC)	max. 0.1	%	<0.1	%
S-compounds (as S)	max. 0.2	ppm	<0.2	ppm



**QC Release Date:** 19.Nov.2019

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**  
**Quality Management**

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