Honeywell

CERTIFICATE OF ANALYSIS

Honeywell Specialty Chemicals Seelze GmbH
Wunstorferstrasse 40
Seelze, 30926
Telefon: +49 5137 999-0
www.lab-honeywell.com

Brand: Honeywell Riedel-de Haën™
Product: 16202
Lot No: G3290
Production date: 24.Nov.2016
Rec. Retest Date: 02.May.2021

Ethanol absolute, puriss. p.a., Reag. ISO, Reag. Ph. Eur.

Parameter	Specification	Units	Result	Units
appearance	complying		complying	
assay (GC)	min. 99.8	Vol.%	99.9	Vol.%
boiling range	78 - 79	°C	78 - 79	°C
density (D 20/20)	0.790-0.791		0.790 - 0.791	
refractive index (n 20/D)	1.3612-1.3618		1.3612 - 1.3618	
non-volatile matter	max. 0.001	%	<0.001	%
water (Karl Fischer)	max. 0.2	%	0.06	%
free acid (as CH3COOH)	max. 0.0005	%	<0.0005	%
free alkali (as NH3)	max. 0.0001	%	<0.0001	%
aluminium (Al)	max. 0.00005	%	<0.00005	%
boron (B)	max. 0.000002	%	<0.000002	%
barium (Ba)	max. 0.00001	%	<0.00001	%
calcium (Ca)	max. 0.00005	%	<0.00005	%
cadmium (Cd)	max. 0.000005	%	<0.000005	%
cobalt (Co)	max. 0.000002	%	<0.000002	%
chromium (Cr)	max. 0.000002	%	<0.000002	%
copper (Cu)	max. 0.000002	%	<0.000002	%
iron (Fe)	max. 0.00001	%	<0.00001	%
magnesium (Mg)	max. 0.00001	%	<0.00001	%
manganese (Mn)	max. 0.000002	%	<0.000002	%
nickel (Ni)	max. 0.000002	%	<0.000002	%
lead (Pb)	max. 0.00001	%	<0.00001	%
tin (Sn)	max. 0.00001	%	<0.00001	%
zinc (Zn)	max. 0.00001	%	<0.00001	%
heavy metals (as Pb)	max. 0.0001	%	<0.0001	%

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Parameter	Specification	Units	Result	Units
acetone (GC)	max. 0.001	%	<0.001	%
aldehydes (as CH3CHO)	max. 0.001	%	<0.001	%
iso-amyl alcohol (GC)	max. 0.05	%	<0.05	%
carbonyl compounds (as CO)	max. 0.003	%	<0.003	%
furfural	complying		complying	
methanol (GC)	max. 200	Vol.ppm	<200	Vol.ppm
2-propanol (GC)	max. 0.003	%	<0.003	%
higher alcohols (GC)	max. 0.01	%	<0.01	%
volatile impurities (GC)	complying		complying	
KMnO4 red. matter (as O)	max. 0.0003	%	<0.0003	%
reaction against H2SO4	complying		complying	
UV-absorption	complying		complying	
APHA	max. 10		<10	

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QC Release Date: 10.May.2017

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.

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Quality Management

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