

Honeywell**CERTIFICATE OF ANALYSIS****Honeywell Specialty Chemicals Seelze GmbH**

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Brand: Honeywell Riedel-de Haën™
Product: 32201
Lot No: I329AS
Production date: 25.Nov.2018
Rec. Retest Date: 02.Jun.2023

Acetone analytical reagent, Reag. ACS, Reag. ISO, Reag. Ph. Eur.

Parameter	Specification	Units	Result	Units
assay (GC)	min. 99.5	%	99.9	%
boiling range	55.5 - 56.5	°C	55.5 - 56.5	°C
density (D 20/4)	0.790-0.792		0.790 - 0.792	
refractive index (n 20/D)	1.3580-1.3600		1.3580 - 1.3600	
non-volatile matter	max. 10	ppm	<10	ppm
water insoluble substances	complying		complying	
water (Karl Fischer)	max. 0.2	%	0.14	%
free acid (as CH ₃ COOH)	max. 0.0015	%	<0.0015	%
free alkali (as NH ₃)	max. 0.0008	%	<0.0008	%
acidity or alkalinity	complying		complying	
aluminium (Al)	max. 0.5	ppm	<0.5	ppm
boron (B)	max. 0.02	ppm	<0.02	ppm
barium (Ba)	max. 0.1	ppm	<0.1	ppm
bismuth (Bi)	max. 0.1	ppm	<0.1	ppm
calcium (Ca)	max. 0.5	ppm	<0.5	ppm
cadmium (Cd)	max. 0.05	ppm	<0.05	ppm
cobalt (Co)	max. 0.01	ppm	<0.01	ppm
chromium (Cr)	max. 0.02	ppm	<0.02	ppm
copper (Cu)	max. 0.02	ppm	<0.02	ppm
iron (Fe)	max. 0.1	ppm	<0.1	ppm
potassium (K)	max. 0.5	ppm	<0.5	ppm
lithium (Li)	max. 0.1	ppm	<0.1	ppm
magnesium (Mg)	max. 0.1	ppm	<0.1	ppm
manganese (Mn)	max. 0.01	ppm	<0.01	ppm
molybdenum (Mo)	max. 0.1	ppm	<0.1	ppm

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Parameter	Specification	Units	Result	Units
sodium (Na)	max. 0.5	ppm	<0.5	ppm
nickel (Ni)	max. 0.02	ppm	<0.02	ppm
lead (Pb)	max. 0.02	ppm	<0.02	ppm
tin (Sn)	max. 0.1	ppm	<0.1	ppm
strontium (Sr)	max. 0.1	ppm	<0.1	ppm
zinc (Zn)	max. 0.05	ppm	<0.05	ppm
KMnO ₄ red. matter (as O)	max. 0.0002	%	<0.0002	%
reducing impurities	complying		complying	
aldehydes (as HCHO)	max. 0.001	%	<0.001	%
benzene (GC)	max. 2	Vol.ppm	<2	Vol.ppm
ethanol (GC)	max. 0.01	%	<0.01	%
methanol (GC)	max. 0.05	Vol.%	<0.05	Vol.%
2-propanol (GC)	max. 0.05	Vol.%	<0.05	Vol.%
related subst. (GC)	complying		complying	
appearance of the solution	complying		complying	
APHA	max. 10		<10	
solubility in water	complying		complying	



QC Release Date: 11.Jan.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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