

**Honeywell Specialty Chemicals Seelze GmbH**

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**Brand:** Honeywell Riedel-de Haën™  
**Product:** 32203  
**Lot No:** J065S  
**Production date:** 06.Mar.2019  
**Rec. Retest Date:** 13.Feb.2023

Diethyl ether, contains BHT as stabilisator, puriss p.a., Reag. ACS, Reag. ISO, Reag. Ph. Eur., >= 99.8 %

Parameter	Specification	Units	Result	Units
appearance (color)	complying		complying	
appearance (form)	complying		complying	
assay (GC)	min. 99.8	%	99.9	%
boiling range	34 - 35	°C	34 - 35	°C
density (D 20/4)	0.713-0.714		0.713 - 0.714	
non-volatile matter	max. 0.001	%	<0.001	%
water (Karl Fischer)	max. 0.03	%	0.02	%
free acid (as CH <sub>3</sub> COOH)	max. 0.0002	%	<0.0002	%
titrable acid	max. 0.0002	meq/g	<0.0002	meq/g
aluminium (Al)	max. 0.50	ppm	<0.50	ppm
boron (B)	max. 0.02	ppm	<0.02	ppm
barium (Ba)	max. 0.10	ppm	<0.10	ppm
calcium (Ca)	max. 0.50	ppm	<0.50	ppm
cadmium (Cd)	max. 0.05	ppm	<0.05	ppm
cobalt (Co)	max. 0.02	ppm	<0.02	ppm
chromium (Cr)	max. 0.02	ppm	<0.02	ppm
copper (Cu)	max. 0.02	ppm	<0.02	ppm
iron (Fe)	max. 0.05	ppm	<0.05	ppm
magnesium (Mg)	max. 0.10	ppm	<0.10	ppm
manganese (Mn)	max. 0.02	ppm	<0.02	ppm
nickel (Ni)	max. 0.02	ppm	<0.02	ppm
lead (Pb)	max. 0.05	ppm	<0.05	ppm
tin (Sn)	max. 0.10	ppm	<0.10	ppm
zinc (Zn)	max. 0.05	ppm	<0.05	ppm
acetone (GC)	max. 0.005	%	<0.005	%
aldehydes	complying		complying	

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Parameter	Specification	Units	Result	Units
carbonyl compounds (as CO)	max. 0.001	%	<0.001	%
carbonyl compounds (as HCHO)	max. 0.001	%	<0.001	%
ethanol (GC)	max. 0.02	%	<0.02	%
methanol (GC)	max. 0.02	%	<0.02	%
peroxides (as H <sub>2</sub> O <sub>2</sub> )	max. 0.3	ppm	<0.3	ppm
reaction against H <sub>2</sub> SO <sub>4</sub>	complying		complying	
APHA	max. 10		<10	
assay BHT (GC)	5-8	ppm	5 - 8	ppm

**QC Release Date:** 30.Apr.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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