

Honeywell Specialty Chemicals Seelze GmbH

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Brand: Honeywell Riedel-de Haën™
Product: 32249
Lot No: H3260
Production date: 22.Nov.2017
Rec. Retest Date: 05.May.2021

Toluene puriss. p.a., ACS reagent, reag. ISO, reag. Ph. Eur., 99.7% (GC)

Parameter	Specification	Units	Result	Units
assay (GC)	min. 99.7	%	>99.9	%
density (D 20/20)	0.865-0.869		0.865 - 0.869	
refractive index (n 20/D)	1.496-1.498		1.496 - 1.498	
non-volatile matter	max. 0.001	%	<0.001	%
water (Karl Fischer)	max. 0.02	%	0.004	%
free acid (as HCl)	max. 0.001	%	<0.001	%
free alkali (as NaOH)	max. 0.001	%	<0.001	%
aluminium (Al)	max. 0.00005	%	<0.00005	%
barium (Ba)	max. 0.00001	%	<0.00001	%
bismuth (Bi)	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	%
potassium (K)	max. 0.00005	%	<0.00005	%
lithium (Li)	max. 0.00001	%	<0.00001	%
magnesium (Mg)	max. 0.00001	%	<0.00001	%
manganese (Mn)	max. 0.000002	%	<0.000002	%
molybdenum (Mo)	max. 0.00001	%	<0.00001	%
sodium (Na)	max. 0.00005	%	<0.00005	%
nickel (Ni)	max. 0.000002	%	<0.000002	%
lead (Pb)	max. 0.00001	%	<0.00001	%
strontium (Sr)	max. 0.00001	%	<0.00001	%
tin (Sn)	max. 0.00001	%	<0.00001	%

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Parameter	Specification	Units	Result	Units
zinc (Zn)	max. 0.00001	%	<0.00001	%
S-compounds (as S)	max. 0.003	%	<0.003	%
thiophene	max. 0.0001	%	<0.0001	%
reaction against H ₂ SO ₄	complying		complying	
APHA	max. 10		<10	

QC Release Date: 28.Nov.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.

Honeywell
Quality Management

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