



## Specification

Concerning Product:	
Article number	10049215GUA
Trade name / designation / denomination	Natriumdihydrogenphosphat Monohydrat
CAS number	10049-21-5
Other names / synonyms	•Phosphoric acid, monosodium salt, monohydrate; •SODIUM PHOSPHATE MONOBASIC, ACS; •SODIUM PHOSPHATE MONOBASIC, MONOHYDRATE, U.S.P.; •Sodium Phosphate Monobasic, Monohydrate, Crystal, Reagent, ACS; •Sodium Phosphate Monobasic, Monohydrate, Granular, BiotechGrade; •Sodium Phosphate Monobasic, Monohydrate, Granular, FCC; •Sodium Phosphate Monobasic, Monohydrate, Granular, USP, BP; •Sodium dihydrogen phosphate monohydrate, ACS, 98.0-102.; •Sodium dihydrogen phosphate monohydrate, Puratronic, 99. (metals basis); •Sodium phosphate monobasic monohydrate;
EC number	600-102-0 231-449-2
Molecular weight [g / mol]	119,98
Formula	NaH <sub>2</sub> PO <sub>4</sub> H <sub>2</sub> NaO <sub>4</sub> P

Parameter	Test Method	Specification	Unit
<b>Organoleptic test</b>			
Appearance of solution	5% H <sub>2</sub> O	clear and colourless	
Appearance		Colourless or white crystals	
<b>Physical parameter</b>			
Loss on drying		10,0 – 15,0	%
pH value		(5% in H <sub>2</sub> O): 4,1 – 4,5	
<b>Identity</b>			
Assay	Titration	NaH <sub>2</sub> PO <sub>4</sub> , anhydrous basis 98,0 – 103,0	%
Identification		A, B: complies	
<b>Impurities</b>			
Heavy Metals (as Pb)		≤ 10	ppm
Insoluble impurities		in H <sub>2</sub> O ≤ 0,01	%
Sulphates (SO <sub>4</sub> )		≤ 30	ppm
<b>Elemental Impurities</b>			
Arsenic (As)		≤ 8	ppm
Calcium (Ca)		≤ 50	ppm
Chlorides (Cl)		≤ 5	ppm
Iron (Fe)		≤ 10	ppm
Potassium (K)		≤ 100	ppm

### **Supplemental information:**

**Storage conditions:** 20°C

**Complies with monographie:** USP, ACS

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 10. Nov. 2021

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