Chemische Werke Hommel GmbH & Co. KG

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Specification

Concerning Product:	
Article number	153184XEP
Trade name / designation / denomination	Rutin, EP
CAS number	153-18-4
Other names / synonyms	•2,3-dihydro-4H-chromen-4-one; •2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-3-[[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-[[(2R,3R,4R,5R,6S)-3,4,5-trihydroxy-6-methyl-2-oxanyl]oxymethyl]-2-oxanyl]oxy]-1-benzopyran-4-one; •4-CHROMANONE; •4-Chromanone; •4-Chromanone [491-37-2]; •CHROMANONE; •Chroman-4-one; •Rutin hydrate; •Rutin trihydrate; •chroman-4-one;
EC number	205-814-1
Customs tariff number / CN code / TARIC	29381000
Molecular weight [g / mol]	610.5175
Formula	$C_{27}H_{30}O_{16}$

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance	visual	yellow or greenish-yellow crystalline powder	
Physical parameter			
Substances insoluble		in Menthol: ≤ 3,0	%
Loss on drying		7,5 – 9,5	%
Solubility		in Methanol: soluble	
Solubility		in Methylene Chloride: practically insoluble	
Solubility		in Water: practically insoluble	
Solubility		It dissolves in solution of Alkali Hydroxide.	
Identity			
Assay	Titration with 0.1 M $N(C_4H_9)_4OH$	95,0 – 101,0	%
Identification	Dissolve 10 mg in 5 ml of alcohol R, add 1 g of Zn R and Hcl	a red color develops	

	R1		
Identification		TLC: Principle spot is similar to that of reference solution	
Infrared absorbtion spectrometry		Conforms to the Rutin CRS spectrum.	
UV spectroscopy	UV/Vis absorption of menthol solution between 210 nm and 450nm	Absorption maxima at 257 nm and 358 nm. Specific absorbance at 358 is 305-330 (anhydrous substance)	
Impurities			
Sulphated ash		≤ 0,1	%
Impurity		A: Isoquercitroside ≤ 2,0	%
Impurity		B: Kaempferol-3-rutinoside ≤ 2,0	%
Impurity		C: Quercetin ≤ 2,0	%
Impurity	at wavelength between 450 and 800	Light absorbing impurities: ≤ 0,10	
Impurity		total: ≤ 4,0	%
Residual Solvents			
Residual solvents		≤ 3000	ppm
Microbiological data			
Aerobic microorganisms		≤ 1000	CFU/g
Escherichia Coli.		Neg.	
Yeast and Mould		≤ 1000	CFU/g

Supplemental information:

Shelf life: 3 years

Complies with monographie: Ph.Eur. 9.0

Regional origin: CN

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Waltrop, 09. Jun. 2021