


Specification

4-Aminoantipyrine *BioChemica*

A1523

Physical Description:	Solid
Product Code:	A1523
Product Name:	4-Aminoantipyrine <i>BioChemica</i>
Specifications:	Assay (titr.): min. 98 % Melting point: 105° - 110°C Loss on drying: max. 1.5 %
Hazard pictograms	
WGK:	1
Storage:	RT
Signal Word:	Attention
GHS Symbols:	GHS07
H Phrases:	H302
P Phrases:	P264 P270 P301+P312 P330 P501
Molecular Formula:	C ₁₁ H ₁₃ N ₃ O
M:	203.25 g/mol
CAS:	83-07-8
EINECS:	201-452-3

AppliChem GmbH

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Specification

4-Aminoantipyrine BioChemica

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CS:	29331190
<p>Comment</p> <p>4-Aminoantipyrine is a metabolite of Aminopyrine with analgesic and anti-inflammatory properties. It is used as a reagent for biochemical reactions producing peroxides or phenols. Ampyrone stimulates liver microsomes and is also used to measure extracellular water. In the enzymatic determination of glucose in biological fluids, the glucose oxidase reaction is combined with determination of the hydrogen peroxide produced. The alkaline oxidative coupling agent that is usually used, potassium ferricyanide, has been replaced with the hydrogen peroxide-peroxidase coupling of <i>N,N</i>-diethylaniline with 4-aminoantipyrine at pH 7 (1). Another application is the determination of phenolic compounds of urine. The reaction involved depends on the fact that some phenolic compounds condense with 4-aminoantipyrine, forming a quinoneimine dye, and then can be oxidized with alkaline ferricyanide to give a red complex, which is measured photometrically at 500 nm (2).</p>	
<p>Bibliography</p> <p>(1)Kabasakalian, P. <i>et al.</i> (1974) <i>Clin. Chem.</i> 20, 606-607 Enzymatic Blood Glucose Determination by Colorimetry of <i>N,N</i>-Diethylaniline-4-Aminoantipyrine. (2)Yamaguchi, Y. & Hayashi, C. (1977) <i>Clin. Chem.</i> 23, 2151-2154 Determination of Urinary Total Phenolic Compounds with Use of 4-Aminoantipyrine.</p>	
	

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