



**M/s. Bimal Pharma Pvt. Ltd., Mumbai, India**

(ISO 9001 : 2015 & AEO T1 Certified Co.)

[www.sorbicsorbates.com](http://www.sorbicsorbates.com)



Cert. No.: 110661/A/0001/UK/En

M/S. BIMAL PHARMA PVT. LTD. MUMBAI (INDIA)	FINISHED PRODUCT INFORMATION
QUALITY CONTROL AND ASSURANCE	PRODUCT : POTASSIUM SORBATE, FCC IX / E-202 (FOOD GRADE)
MSDS No. : BPPL 048 (Available on Request)	SPECIFICATION No. : FP-048 (Enclosed)

1. **NOMENCLATURE** : 2,4-Hexadienoic acid, potassium salt.  
: Potassium 2,4-hexadienate.  
: Sorbistat-K.  
: Sorbistat-potassium.

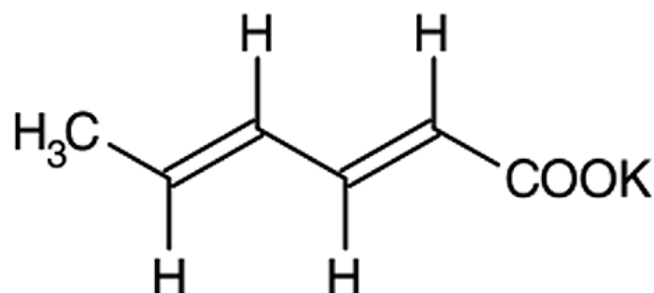
2. **CAS NO.** : 590-00-1 / 24634-61-5

3. **HSN CODE** : 29161990

4. **EMPIRICAL FORMULA** : C<sub>6</sub>H<sub>7</sub>KO<sub>2</sub>

5. **MOL. WT.** : 150.2

6. **STRUCTURAL FORMULA** :



7. **DESCRIPTION** : White to Off- white Granular  
: Very soluble in water, slightly soluble  
in Alcohol.

8. **APPLICATIONS IN FOOD** : Antimicrobial Preservative.  
: Antiseptic and Anti staling Agents for Food etc.  
: Used as Food Preservative in Soft Drinks,  
Fruits, Flavoring, Salted Food and Dairy  
Products.  
: Used in Cosmetic & Pharma formulations,  
as Harmless Antimicrobial to **replace  
Harmful Parabens.**

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1. **DESCRIPTION** : White to Off- white Granular  
: Slight characteristic odor.
2. **SOLUBILITY** : Very soluble in water, slightly soluble  
in Alcohol.
3. **IDENTIFICATION** : 1) Potassium Test  
2) Test of double bonds  
3) UV
4. **MELTING POINT** : M.P. of Derivative is 133°C to 135°C
5. **CLARITY & COLOUR OF SOLUTION  
(APPEARANCE OF SOLUTION)** : 5% Solution in Water is Clear and not more  
Intensely colored than reference solution Y<sub>5</sub>.
6. **HEAVY METALS** : 10 ppm Max.
7. **pH** : 8.5 – 10.5  
(10% water solution)
8. **FREE ALKALI  
(K<sub>2</sub>CO<sub>3</sub>)** : NMT 1%
9. **FREE ACID  
(SORBIC ACID)** : NMT 1%
10. **ARSENIC (As)** : Max. 3 ppm
11. **LEAD CONTENT** : 2 ppm Max. (2 mg/ Kg. Max.)
12. **MERCURY** : 1 ppm Max. (1 mg/ Kg. Max.)
13. **CHLORIDE CONTENT** : NMT 0.018%

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- 14. SULPHATE CONTENT** : NMT 0.038%
- 15. WATER CONTENT** : Max. 1.0%  
(Loss on Drying)
- 16. ALDEHYDES** : Max. 0.1%  
(as Formaldehyde)
- 17. HEAT STABILITY** : No change in color after heating for  
90 minutes at 105°C.
- 18. LIGHT STABILITY** : No change in color after an hour  
exposure to light.
- 19. FOREIGN MATERIAL** : No obvious foreign material through  
**ANALYSIS** 0.8 µm filter.
- 20. POTASSIUM SORBATE** : 99% - 101.0%  
**CONTENT**  
(Assay) (on dried basis)
- 21. MICROBIAL TESTING** :
- Total Count Colony : Less than 100 cfu / gms.  
Mould & Yeast : Less than 100 cfu /gms.  
Coliform : Less than 30 cfu / gms.
- 22. PACKING** : 25 Kgs. White carton with double PE  
Liners inside.