

Metronidazole Benzoate



KIMYAGARAN
Emrooz
Chemical Industries Co.

Technical Data Sheet



Metronidazole benzoate

Chemical Name:

1-(2-benzoyloxyethyl)-2-methyl-5-nitroimidazole

Trade Name:

Metronidazole benzoate

Introduction:

Metronidazole, a powerful antiprotozoal and antibacterial drug, has a bitter taste, and it is not acceptable to some young patients. Metronidazole benzoate (benzoyl Metronidazole), the benzoyl ester of metronidazole, is tasteless and has also been widely used because of its greater palatability. Metronidazole benzoate is the benzoate ester of metronidazole which is obtained by condensation of benzoic acid and metronidazole. It is hydrolyzed before or during absorption through the gut wall so that only metronidazole can be detected in the circulation.

General Applications:

Metronidazole benzoate is used in the treatment of infections in which anaerobic bacteria have been identified or are suspected as pathogens, particularly Bacteroides, Fragilis and other species of bacteroides and including other species for which metronidazole is bactericidal e.g. Fusobacteria, Eubacteria, Clostridia and anaerobic Cocci. It can be used in septicaemia, bacteraemia, brain abscess, peritonitis and post-operative wound infection due to anaerobic bacteria. It is used also in prevention of acute dental infections (e.g. acute pericoronitis and acute apical infections), Trichomonas infections, Amoebiasis and Giardiasis.

**Packaging:**

Packaging Type	Net weight	Gross weight	No. of drums per pallet	No. of pallets in a 20 FLC	Shelf life	IMCO Class
PE bags in PE Drums	25 Kgs	40 Kgs	6	20	2 yrs	Non-Imco

Safety, Handling & Storage:

Full information on the safety, handling and storage of Metronidazole is available in the corresponding Material Safety Data Sheet ([MSDS](#)).



1-(2-benzoyloxyethyl)-2-methyl-5-nitroimidazole

Trade Name: **Metronidazole benzoate**

Specification

TEST	STANDARD	Unit	Ref.
Appearance	White or slightly yellowish, crystalline powder or flakes.	–	BP 2017
Solubility	Practically insoluble in water, freely soluble in methylene chloride, soluble in acetone, slightly soluble in alcohol.	–	BP 2017
Melting point	99 – 102	C°	BP 2017
IR spectra	Spectrum obtained with standard Metronidazole benzoate.	–	BP 2017
Appearance of solution	The solution is not more opalescent than reference suspension and not more intensely coloured than reference solution	–	BP 2017
Acidity	Max 0.25	ml NaOH 0.02 M	BP 2017
Related substances	—impurities A, B, C: not more than the area of the corresponding peak in the chromatogram obtained with reference solution (b) (0.1 per cent)	% wt	BP 2017
	-any other impurity :not more than the area of the principal peak in the chromatogram obtained with reference solution (a) (0.1 per cent),		
	— total : not more than twice the area of the principal peak in the chromatogram obtained with reference solution (a) (0.2 per cent)		
Heavy Metals	Max 20	ppm	BP 2017
Loss on drying	Max 0.5	% wt	BP 2017
Sulfated Ash	Max 0.1	% wt	BP 2017
Assay (dried substance)	98.5 – 101	% wt	BP 2017

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