

SPECIFICATION

Product Name: Paracetamol BP Grade
Chemical Formula: C ₈ H ₉ NO ₂
CAS Number: 103-90-2
Molecular Weight: 151.16 g/mol
Appearance: White or almost white crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification Test			
A. Melting Point	°C	169°C	168°C to 172°C
B. IR	-	Complies	The infrared absorption spectrum of sample should be concordant with the reference spectrum of paracetamol.
Related Substances (by HPLC)			
Impurity J	PPM	Note detected	NMT 10 PPM
Impurity K	PPM	4 PPM	NMT 50 PPM
Unspecified Impurity	%	BDL	NMT 0.05%
Total Impurities	%	BDL	NMT 0.2%
Loss on drying	%	0.19%	NMT 0.5%
Sulphated ash	%	0.05%	NMT 0.1%
Assay (By titration)	%	99.9%	99.0% to 101.0% (On dried basis)

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in chloroform. Soluble in ether.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry place at 15–25°C. Protect from moisture, heat, and direct sunlight. Keep the container tightly closed in the original, well-labeled container and store in a well-ventilated area.

Applications

- Use: Widely used as an analgesic (pain reliever) and antipyretic (fever reducer). It is commonly used to relieve mild to moderate pain, including headache, toothache, muscle pain, and joint pain, as well as to reduce fever. It is widely used as an active pharmaceutical ingredient (API) in tablets, capsules, syrups, suspensions, and other pharmaceutical formulations.
- Dosage: Depends on the dosage form, patient age, body weight, and clinical condition. It should be used according to the product formulation requirements or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 25 Kgs pp bag with inner liner or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
* Specifications are based on the manufacturer's provided specifications.