



C₇H₅NO₃S / M.W. 183.18

IDENTIFICATION OF PRODUCT

Chemical Name 1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide
 1,2-Benzisothiazolin-3-one 1,1-dioxide

Identification No. CAS: 81-07-2 EINECS: 201-321-0 HS: 2925.11.1000 E No: E954(i) UN: N/A

STANDARD

Subject	Specification	Analytical Method
Characters		Ph. Eur.
Appearance	White or almost white, crystalline powder or colourless crystals	
Solubility	Sparingly soluble in boiling water and in ethanol (96%), slightly soluble in cold water. It dissolves in dilute solutions of alkali hydroxides and carbonates	
Identification		
Blue litmus paper	Red	Ph. Eur.
Melting point	226 ~ 230 °C	Ph. Eur./USP
Infrared absorption	Passes test	Ph. Eur./USP
Derivation to fluorescent substances	Passes test	Ph. Eur.
Derivation to salicylic acid	Passes test	Ph. Eur.
Appearance of solution		Ph. Eur./USP
Clarity of solution	Clear	
Color of solution	Colorless	
Loss on drying	Not more than 1.0 % w/w	Ph. Eur./USP
Limit of benzoate and salicylate	Passes test	USP
Readily carbonisable substances	Passes test	Ph. Eur./USP
Arsenic	Not more than 2mg/kg	Internal Method
Selenium	Not more than 0.003% w/w	Internal Method
Lead	Not more than 1mg/kg	Internal Method
Residual on ignition(sulfated ash)	Not more than 0.2% w/w	Ph. Eur./USP
Residual solvents	Meets USP/Ph.Eur requirements	Ph.Eur./USP
Limit of toluenesulfonamides		
o-Toluenesulfonamide	Not more than 10mg/kg	Ph. Eur./USP
p-Toluenesulfonamide	Not more than 10mg/kg	Ph. Eur./USP
Assay(dried basis, USP)	98.0% ~102.0%	USP
Assay(dried substance, Ph.Eur)	99.0 ~ 101.0 %	Ph. Eur.

	STANDARD SPECIFICATION	Code No.	JMC-Q-0350
		Rev. No.	17-221110
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Subject	Specification	Analytical Method
Benzoic acid p-Sulphonamide	Not more than 25mg/kg	E954
Other organic impurities(by GC)		
Methyl benzoate	Not Detected	Internal Method
Methyl anthranilate	Not Detected	Internal Method
Phthalate or their derivatives	Not Detected	Internal Method
Benzamide	Not Detected	Internal Method
2-chlorobenzamide	Not Detected	Internal Method
1,2-benzisothiazoline-3-one	Not Detected	Internal Method
N-methyl saccharin	Not Detected	Internal Method
2-chlorobenzene sulfonamide	Not Detected	Internal Method
Dibutyl phthalate	Not Detected	Internal Method
Microbes		
Total aerobic microbial count	Max. 100 cfu/g	USP
Escherichia coli	Absence	USP
Total yeast and mold count	Max. 100 cfu/g	USP
Staphylococcus aureus	Absence	USP
Salmonella	Absence	USP
Pseudomonas aeruginosa	Absence	USP

- ※ The above specification and analytical method conform to the Pharmaceutical grade (Ph. Eur., USP/NF, JP, KP, etc.) and Food grade (E954, FCC, JECFA, etc.).
- ※ Arsenic/Selenium/Lead/Residual solvents/Other organic impurities(by GC)/Microbes results are quarterly based on statistics.
- ※ Free from any allergen, irradiation, pesticides, GMO, BSE/TSE, Gluten, Latex, lactose and CMR.(carcinogenic, mutagenic or reprotoxic)

STORAGE & HANDLING CONDITIONS

- Preserve in well-closed containers.(USP/FCC)
- Store at room temperature.(USP)

PACKAGING

- 25kg Carton box and 50kg Fiber drum with inner Polyethylene bag.
- There are various packaging types according to the customer's requirements.

SHELF LIFE

- The shelf life of this material is five years when stored under the conditions specified above.