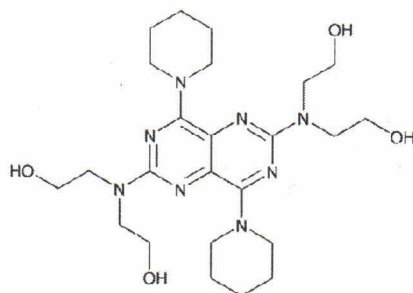


Batch no 202405205  
 Mf date May 14 2024  
 Retest May 13 2027  
 Batch size 502.3 kg

Molecular Structure



Molecular Formula  $C_{24}H_{40}N_8O_4$   
 Molecular Weight 504.63  
 CAS Registry Number 58-32-2

Aug 23 2024

| Tests                   | Specifications  | Results         |
|-------------------------|---|-----------------|
| Appearance              | Bright yellow crystalline powder  | Conforms        |
| Solubility              | Practically insoluble in water, freely soluble in acetone, soluble in anhydrous ethanol. Freely soluble in diluted hydrochloride acid | Conforms        |
| Identification          | IR  | Positive        |
| Sulfated ash            | ≤ 0.1%  | 0.05%           |
| Related substances      | Impurity A ≤ 0.5%   | < 0.05%         |
|                         | Impurity B ≤ 0.5%   | < 0.05%         |
|                         | Impurity C ≤ 0.5%   | ND              |
|                         | Impurity D ≤ 0.2%   | < 0.05%         |
|                         | Impurity E ≤ 0.2%   | ND              |
|                         | Any other impurity ≤ 0.1%   | < 0.05%         |
|                         | Total impurities ≤ 1.0%   | ND              |
|                         | Residual solvents   | Methanol ≤ 0.2% |
|                         | Ethanol ≤ 0.2%  | 0.03%           |
| Benzenesulfonate esters | Sum of methyl p-toluenesulfonate & ethyl p-toluenesulfonate ≤ 3.75 ppm  | ND              |
| Chlorides               | ≤ 200 ppm   | Conforms        |
| Loss on drying          | ≤ 0.5%  | 0.05%           |
| Assay (odb)             | 98.5 ~ 101.5% of $C_{24}H_{40}N_8O_4$   | 99.6%           |

|                     |                               |
|---------------------|-------------------------------|
| Packaging & storage | Protected from light          |
| Conclusion          | Material complies with EP11.0 |