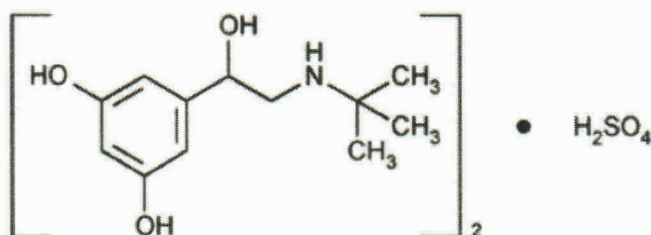




Batch no 20260524  
Mf date May 24 2026  
Retest date May 23 2028

Molecular Structure



Molecular Formula  $(C_{12}H_{19}NO_3)_2 \cdot H_2SO_4$

Molecular Weight 548.65

CAS Registry Number 23031-32-5

Jul 28 2026

| Tests                       | Specifications                                                              | Results                           |
|-----------------------------|-----------------------------------------------------------------------------|-----------------------------------|
| Appearance                  | White or almost white crystalline powder, odorless or almost odorless       | Conforms                          |
| Identification              | IR, UV                                                                      | Positive                          |
| Acidity                     | $\leq 0.50$ mL of 0.020N Sodium hydroxide is required (0.3% as acetic acid) | 0.10mL of 0.020N NaOH is consumed |
| Loss on drying              | $\leq 0.5\%$                                                                | 0.19%                             |
| Residue on ignition         | $\leq 0.2\%$                                                                | 0.02%                             |
| Heavy metals                | $\leq 0.0025\%$                                                             | Conforms                          |
| Chromatographic purity      | Meets the requirements                                                      | Conforms                          |
| Organic volatile impurities | Meets the requirements                                                      | Conforms                          |
| Residual solvents           | Meets the requirements                                                      | Conforms                          |
| Assay (odb)                 | 98.0 ~ 101.0%                                                               | 99.48%                            |

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| Packaging & storage | Preserve in well-closed, light-resistant containers, at controlled room temperature |
| Conclusion          | Material complies with USP38                                                        |