

# CERTIFICATE OF ANALYSIS

(Certificate No. KMD088005-01)

Release Date: 03/01/2025

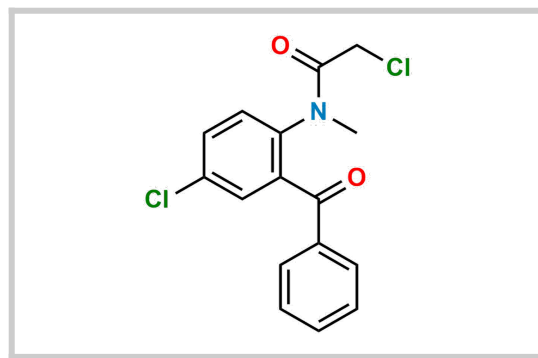
Re-test Date: 02/01/2028

## Diazepam EP Impurity B

### Identification

**Chemical Name :**  
N-(2-benzoyl-4-chlorophenyl)-2-chloro-N-methylacetamide

**CAT No.** : KMD088005  
**CAS No.** : 6021-21-2  
**Molecular Formula** : C<sub>16</sub>H<sub>13</sub>Cl<sub>2</sub>NO<sub>2</sub>  
**Molecular Weight** : 322.2



### Analytical Information

<b>Batch No.</b>	: D088005-091-122	<b>Solubility</b>	: Acetonitrile
<b>Description</b>	: Light Yellow Solid	<b>Mass</b>	: Confirm
<b>HPLC Purity</b>	: 99.37 %	<b>IR</b>	: Confirm
<b>Weight Loss By TGA</b>	: 0.31 %	<b><sup>1</sup>H NMR</b>	: Confirm
<b>% Potency</b>	: 99.06 %		

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage  
**Shipping Condition** : Product is stable to be Shipped at Room Temperature  
**% Potency** = [100 - 0.31(Weight Loss By TGA)] x [99.37(HPLC Purity)]/100 = 99.06 %  
**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		03/01/2025
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		03/01/2025

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, IR and TGA