



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-357333
Lot Number: SAMPLE
Product Name: Diclofenac diethylamine
CAS Number: 78213-16-8
Molecular Formula: $C_{14}H_{11}Cl_2NO_2 \cdot C_4H_{11}N$
Molecular Weight: 369.29

Test	Specification	Result
Appearance	White or light yellow crystalline powder	Complies
Assay (HPLC)	$\geq 99\%$	99.6%
Identification (Infrared Spectrum)	Conforms to structure	Complies
Identification (TLC)	Conforms to structure	Complies
Clarity	Clear (5% w/V solution in Methanol)	Complies
pH	6.4-8.4 (1% w/V solution in Ethanol 10%V/V)	7.1
Solubility	Freely soluble in Methanol and 96% Ethanol; Sparingly soluble in water and Acetone	Complies
Color Value	The absorbance measured at 440 nm is not greater than 0.05 (5% w/V solution in Methanol)	Complies
Heavy Metals	≤ 10 ppm	Complies
Loss on Drying	$\leq 0.5\%$	0.2%
Related Substances	Single impurity $\leq 0.2\%$ Total impurities $\leq 0.5\%$	Complies
Sulfur Content	$\leq 0.1\%$	Complies

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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