

Demeclocycline hydrochloride PRODUCT DATA SHEET

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Product Name:	Demeclocycline hydrochloride
Product Number:	D032
CAS Number:	64-73-3
Molecular Formula:	C ₂₁ H ₂₂ Cl ₂ N ₂ O ₈
Molecular Weight:	501.3
Appearance:	Yellow to orange solid
Storage Conditions:	-20°C
Description:	Demeclocycline hydrochloride is a salt prepared from demeclocycline taking advantage of the basic dimethylamino group which protonates and readily forms a salt in hydrochloric acid solutions. The hydrochloride is the preferred formulation for pharmaceutical applications. Like all tetracyclines, demeclocycline shows broad spectrum antibacterial and antiprotozoan activity. Demeclocycline hydrochloride is soluble in ethanol, methanol, DMF, DMSO, and water.
Mechanism of Action:	Demeclocycline HCI blocks protein synthesis by binding to the 30S and 50S ribosomal subunits.
References:	A new family of antibiotics: the demethyltetracyclines. McCormack J.R.D. et al. J. Am. Chem. Soc. 1957, 79, 4561.
	Structure-activity relationships in the tetracycline series. Blackwood R.K. & English A.R. In Structure-activity relationships among the semisynthetic antibiotics. (Ed. Perlman D. Academic Press, London) 1977, 397.

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