

Acyclovir (Acycloguanosine) PRODUCT DATA SHEET

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Product Name:	Acyclovir (Acycloguanosine)
Product Number:	A090
CAS Number:	59277-89-3
Molecular Formula:	$C_8H_{11}N_5O_3$
Molecular Weight:	225.21
Appearance:	White or almost white crystalline powder
Water Content (Karl Fischer):	Not more than 6.0%
Description:	<p>Acyclovir (acycloguanosine) is a synthetic purine nucleoside analog and is used as an antiviral medication for the treatment of herpes simplex virus (HSV), shingles, and chickenpox.</p> <p>Synonyms: acycloguanosine, ACV, Zovirax, 9-[(2-Hydroxyethoxy)methyl]guanine</p>
Mechanism of Action:	Acyclovir (acycloguanosine) is converted to acyclovir triphosphate (ACV-TP) by viral enzymes which inactivates HSV DNA polymerases.
Spectrum:	acyclovir (acycloguanosine) targets most herpesvirus species including HSV-1, HSV-2, cytomegalovirus, Epstein-Barr virus (EBV), and Varicella zoster virus (VZV).
References:	Elion, Gertrude B. "Mechanism of Action and Selectivity of Acyclovir." American Journal of Medicine, 20 July 1982. Web.

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