

# Specification

## Technical Data Sheet

<b>Product Name</b>	Doxorubicin hydrochloride
<b>Product No</b>	57489114
<b>CAS Number</b>	25316-40-9
<b>Storage Temperature</b>	2 to 8 °C
<b>Molecular Weight</b>	579.98
	<b>Specification</b>
<b>Appearance</b>	Orange-red Crystalline powder
<b>pH</b>	4.0 - 5.5
<b>Any Other Impurities</b>	≤ 0.5%
<b>Assay (HPLC)</b>	98.0-102.0%
<b>Crystallinity</b>	Complies with USP
<b>Related Substances</b>	Doxorubicinone: ≤0.5% / Danunorubicin: ≤0.5%

## Specification

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**Residual Solvents**

Acetone and alcohol:  $\leq 2.5\%$  / Acetone:  $\leq 0.5\%$  / Methanol:  $\leq 500\text{ppm}$

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**Solubility**

Soluble in: water, methanol and isotonic NaCl(aq). Poor solubility in chloroform and other organic solvents.

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**Total Impurities**

$\leq 2.0\%$

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**Water Content**

$\leq 4.0\%$

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**Identification**

HPLC

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