

**neoFroxx GmbH**

Marie-Curie-Str. 3  
64683 Einhausen  
+49 6251 989 240  
coa@neofroxx.com  
www.neofroxx.com

## Specification

Product	Putrescine dihydrochloride for biochemistry
Product number	1238
Synonyms	1,4-Diaminobutane dihydrochloride
Formula	$C_4H_{12}N_2 \cdot 2 HCl$
Molecular weight	161.08 g/mol
CAS number	333-93-7
Storage	below 25°C
Retest period (months)	36
Parameter	Specification
Assay	$\geq 97 \%$
Appearance of solution (10 % in water) (revised)	clear and colourless
Water	$\leq 2 \%$
Loss on drying (105°C, 3 h, vacuum)	$\leq 3 \%$
pH (10 % in water, 20°C)	4 - 7
Heavy metals (Pb)	$\leq 0.002 \%$

Einhausen, 06.08.2024