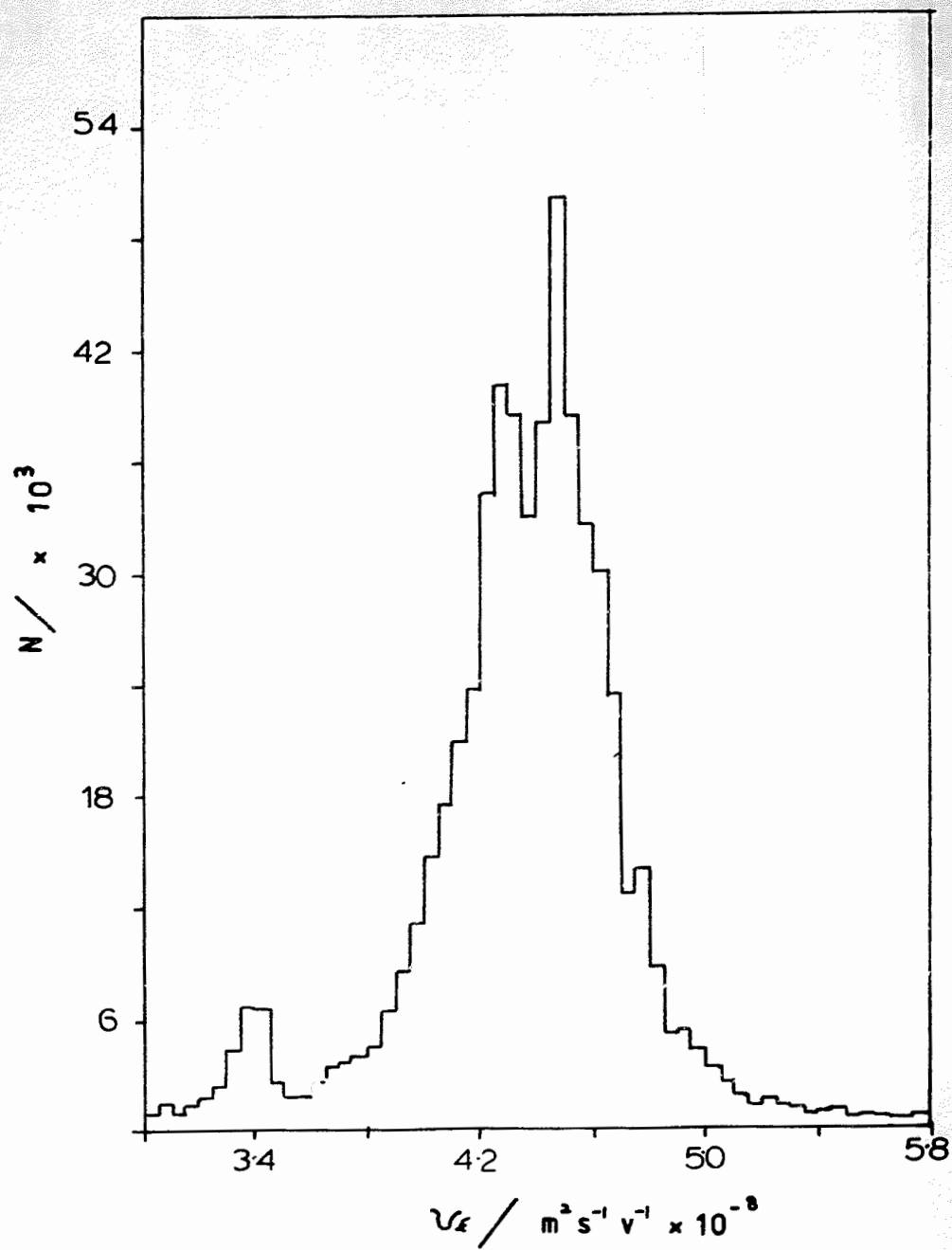
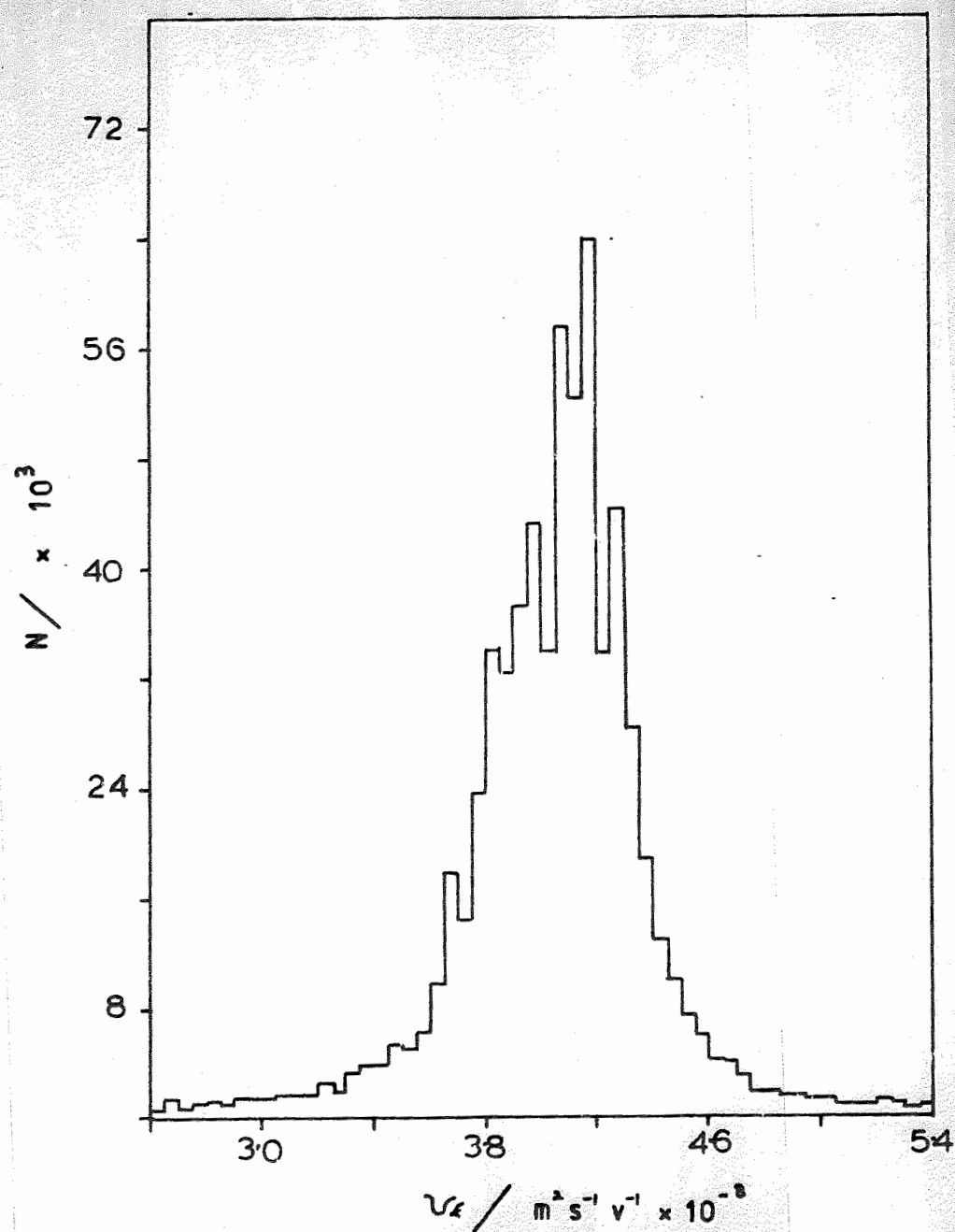


Appendix I.

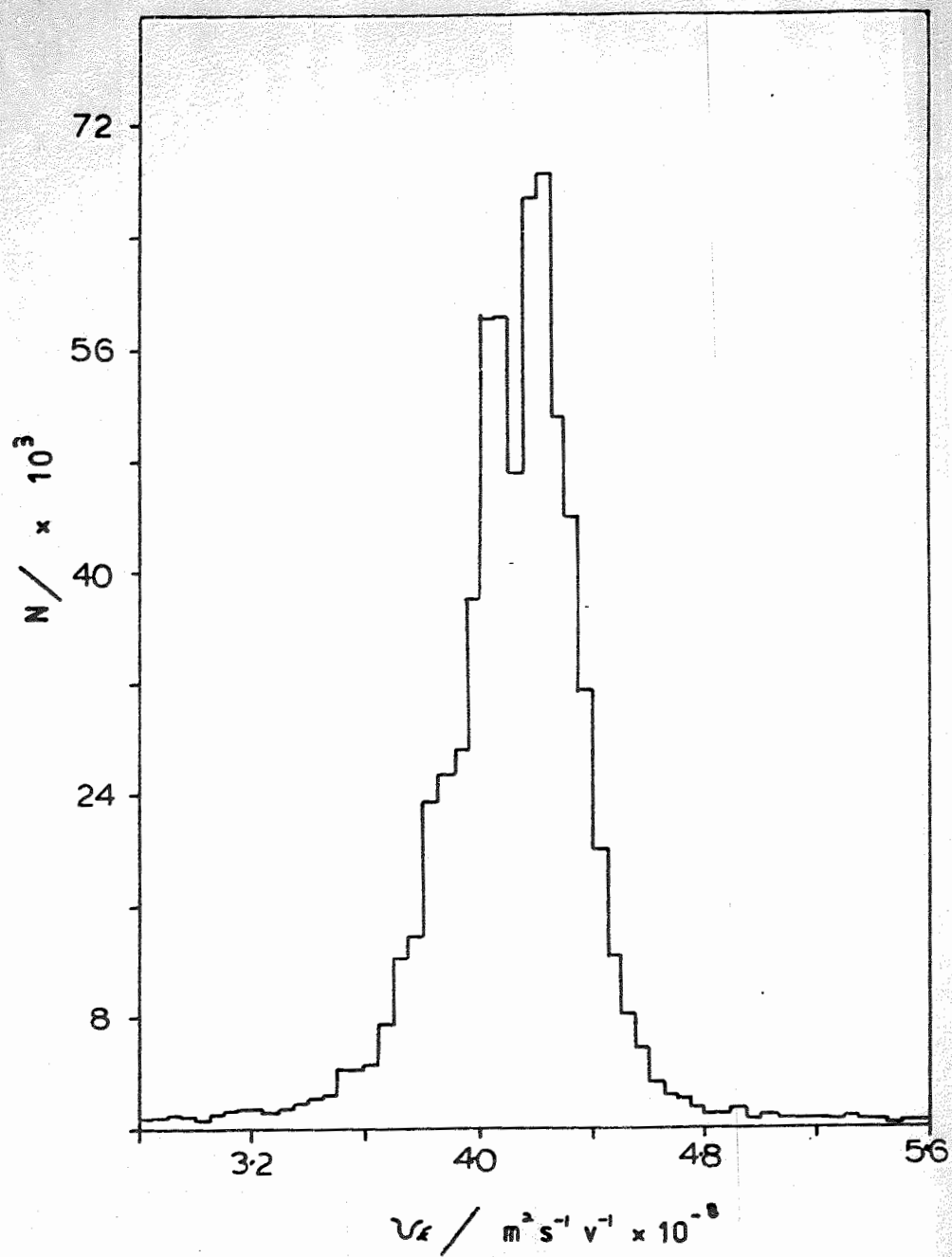
Pigment mobility distribution histograms



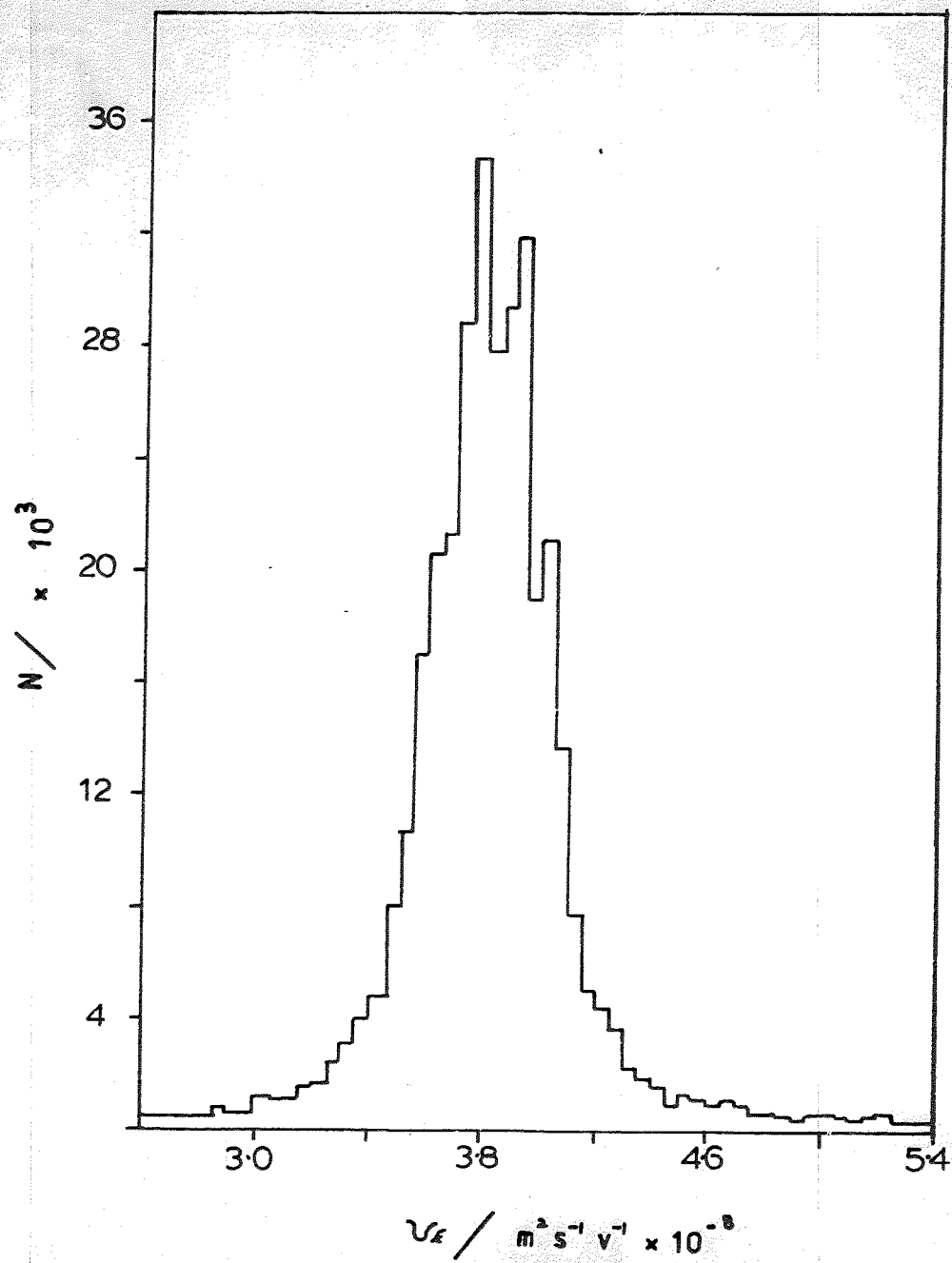
RTC90 Pigment in aqueous solution @ pH 3.4



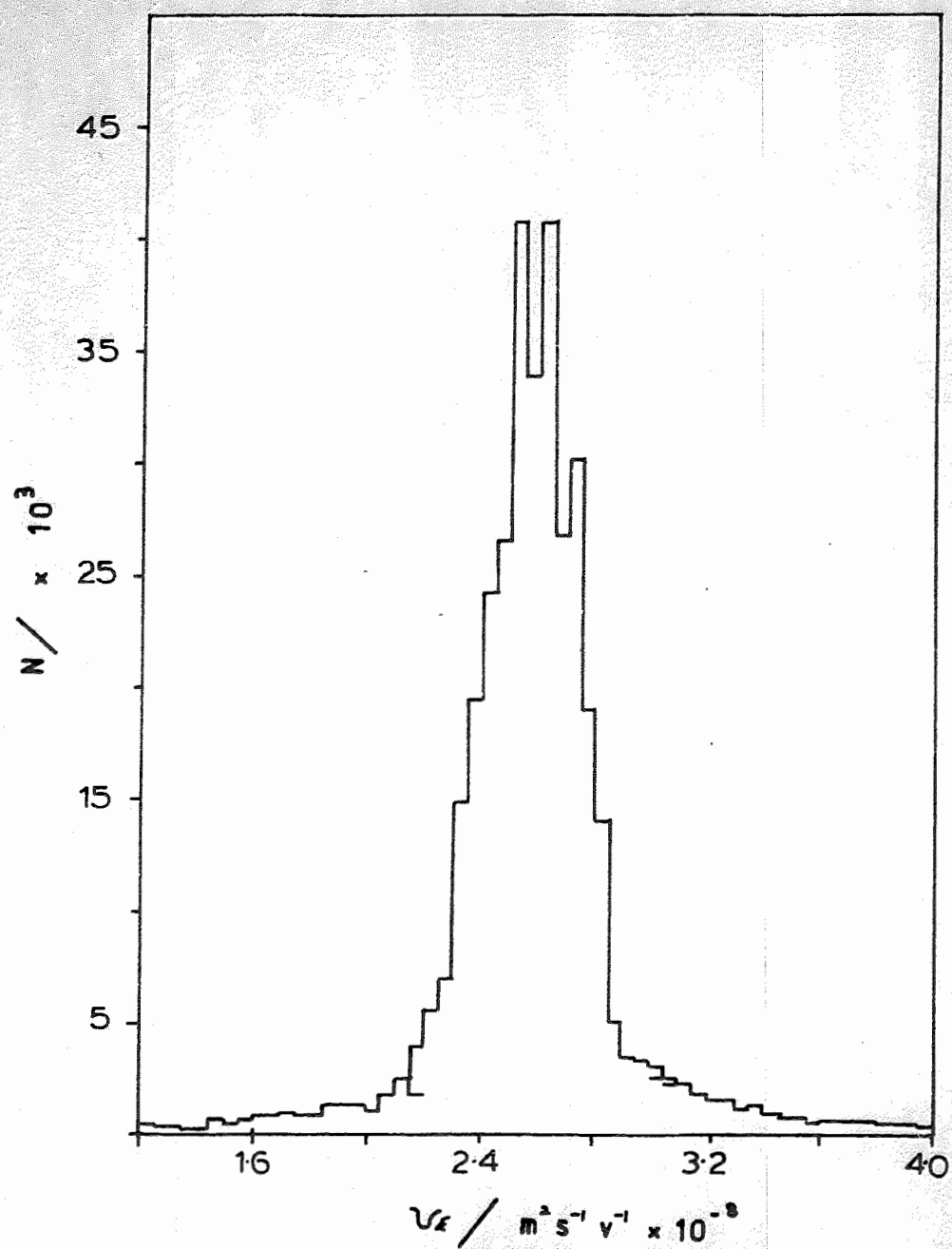
RTC90 Pigment in aqueous solution @ pH 4.7



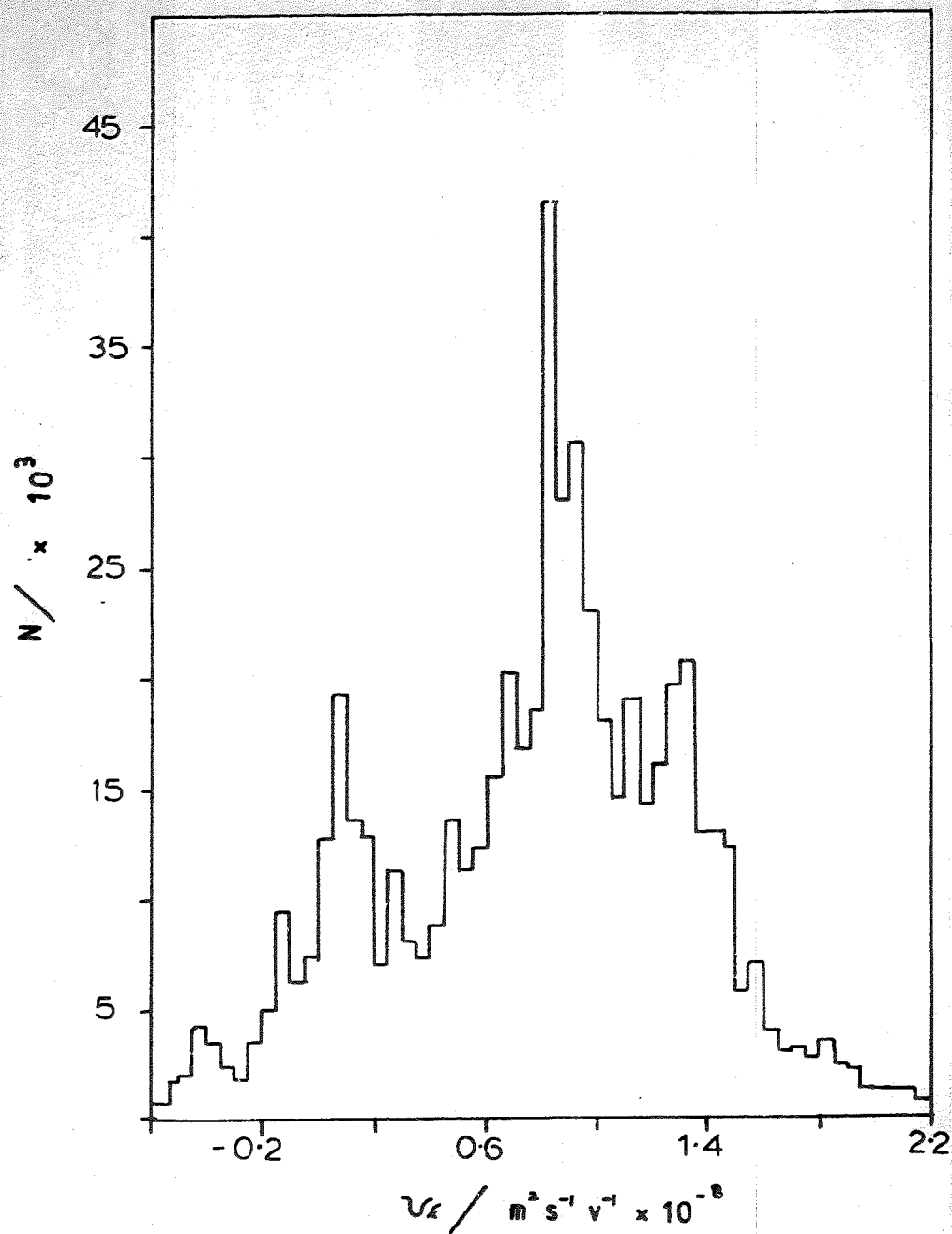
RTC90 Pigment in aqueous solution @ pH 4.8



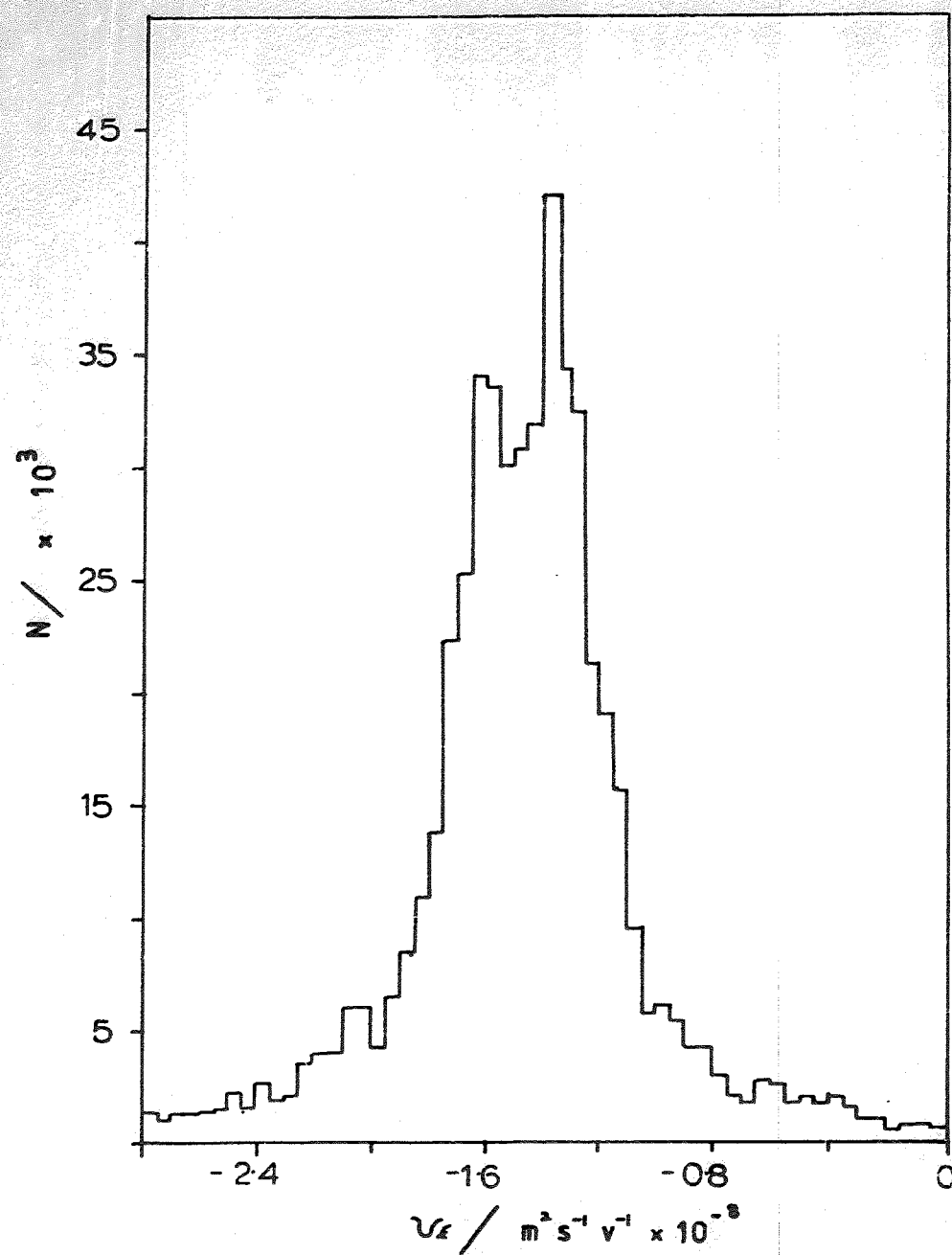
RTC90 Pigment in aqueous solution @ pH 5.7



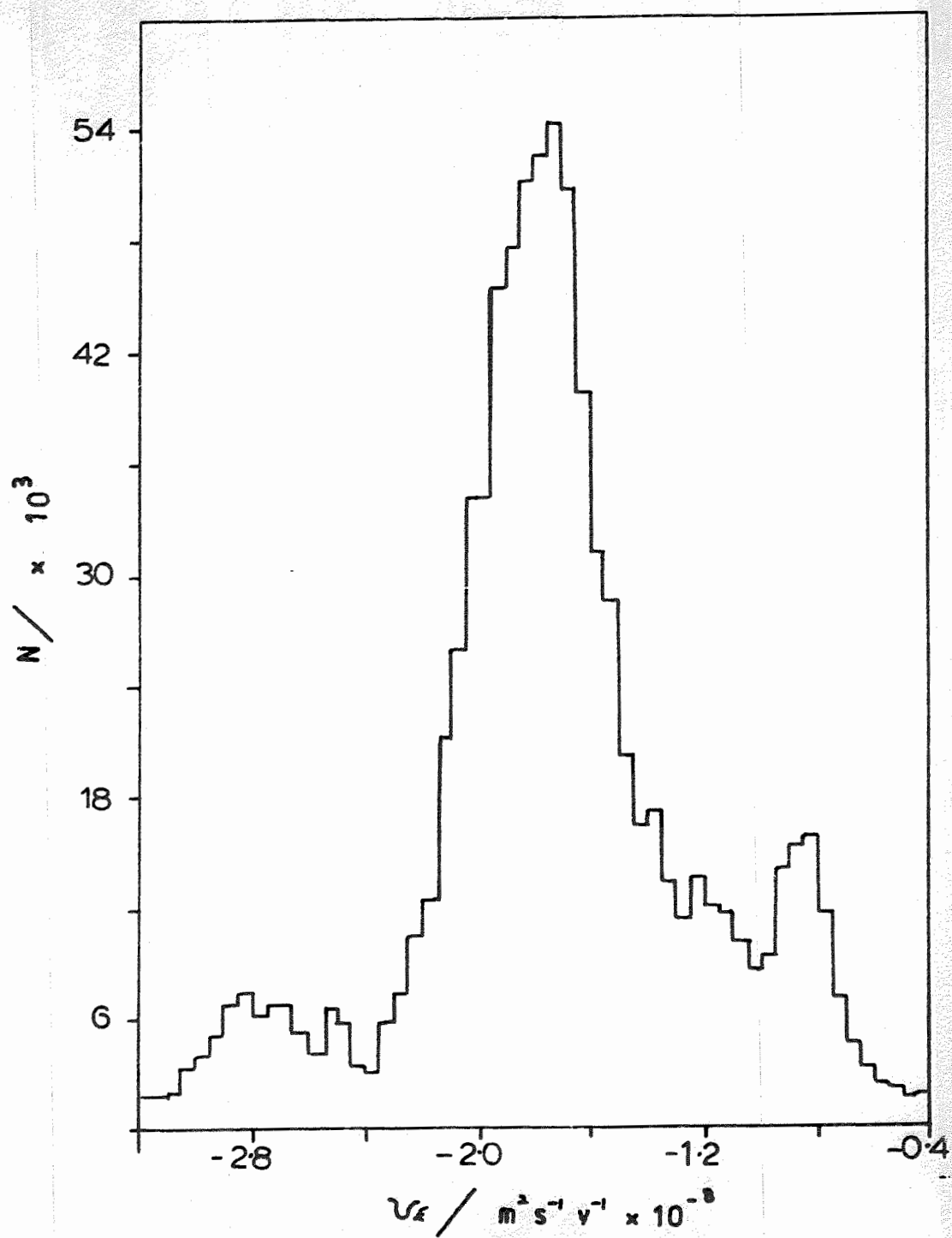
RTC90 Pigment in aqueous solution @ pH 6.5



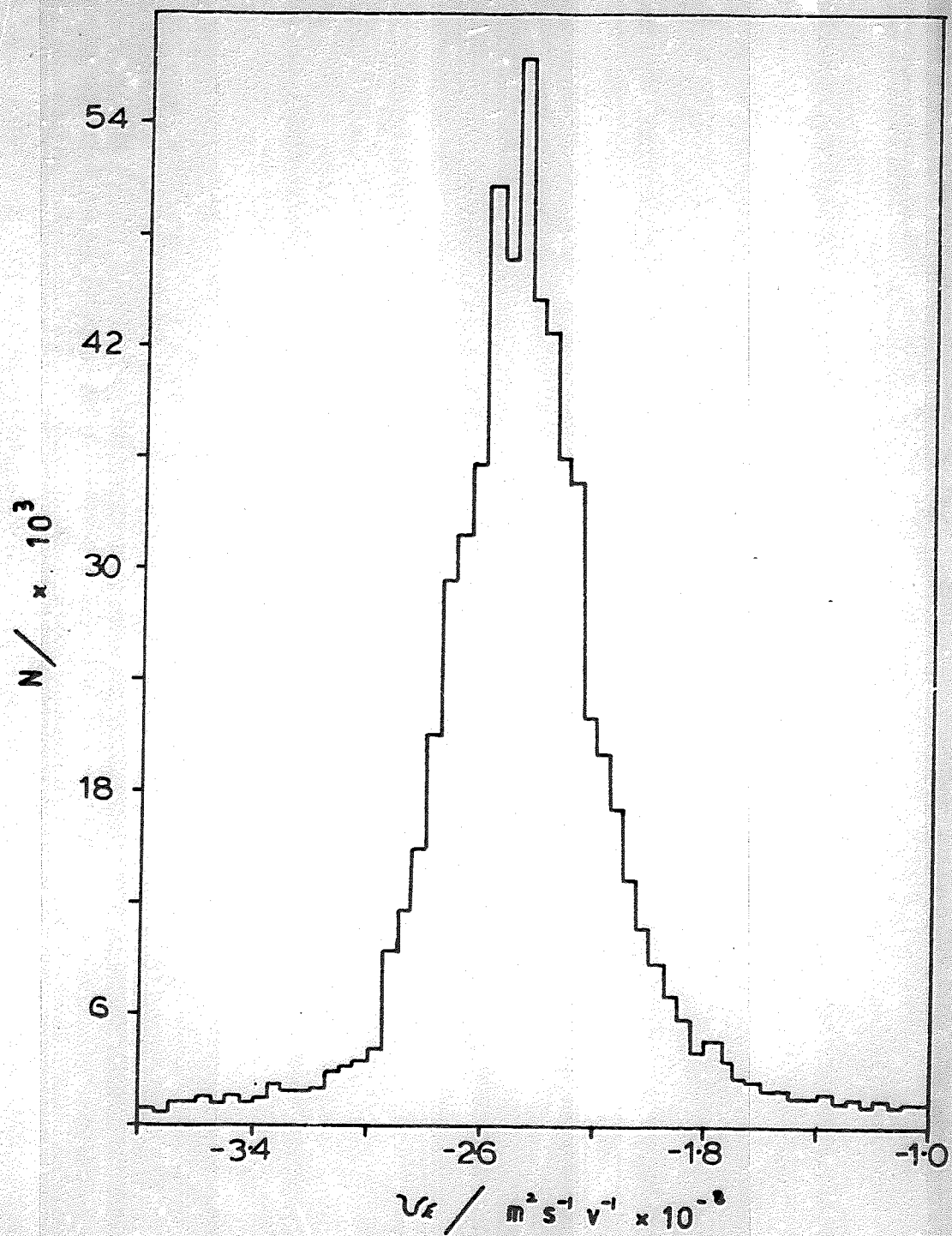
RTC90 Pigment in aqueous solution @ pH 7.1



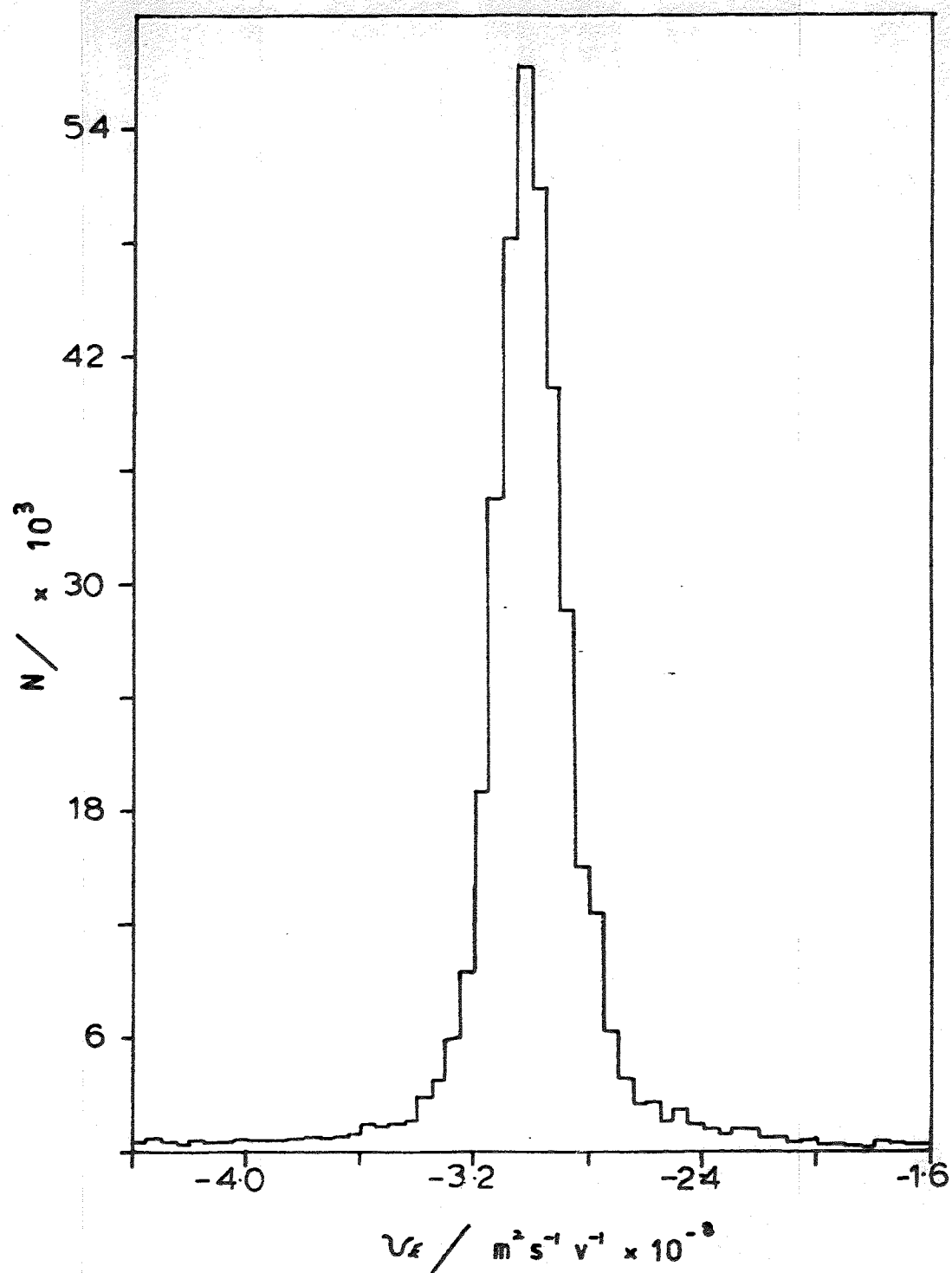
RTC90 Pigment in aqueous solution @ pH 7.6



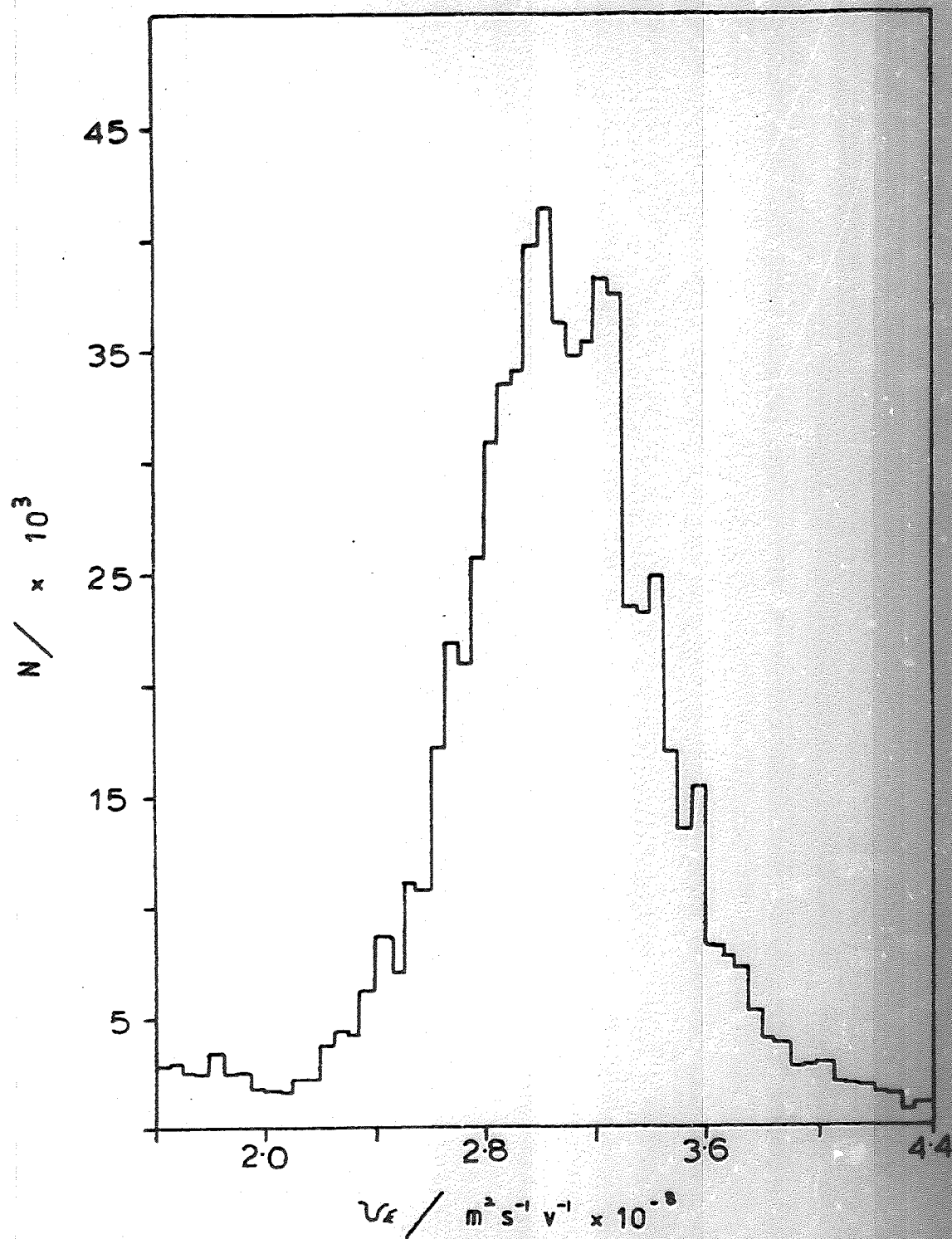
RTC90 Pigment in aqueous solution @ pH 7.7



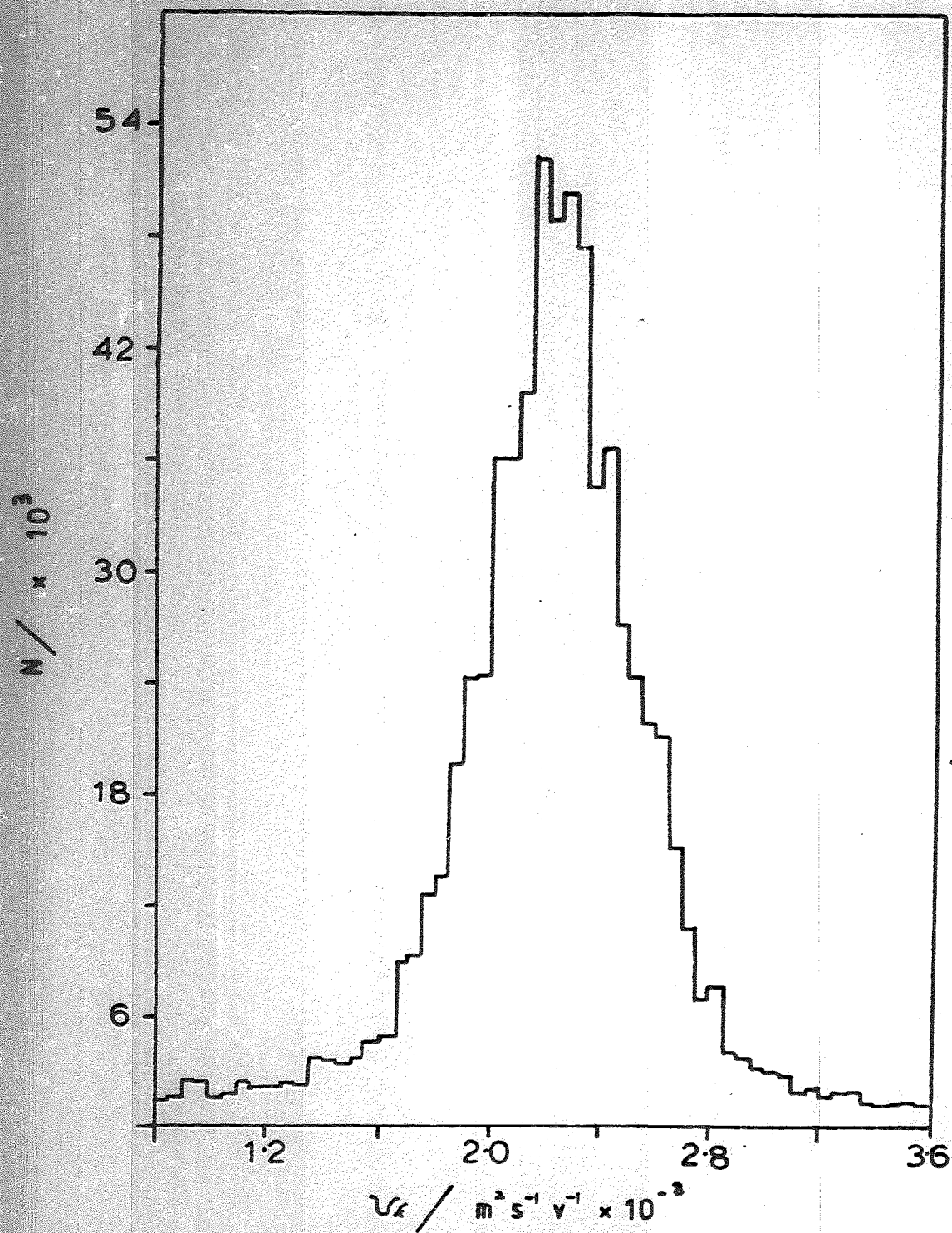
RTC90 Pigment in aqueous solution @ pH 7.9



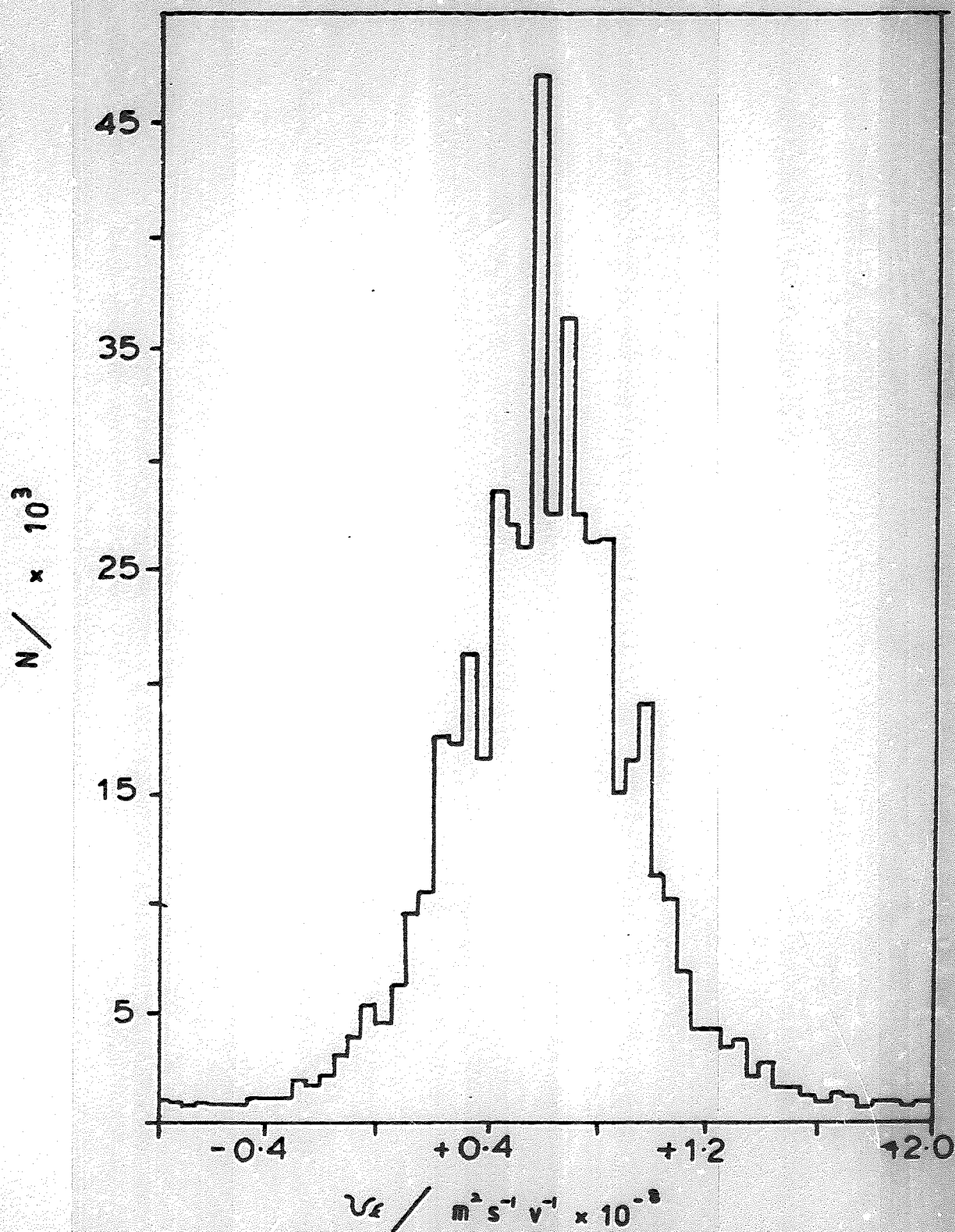
RTC90 Pigment in aqueous solution @ pH 9.3



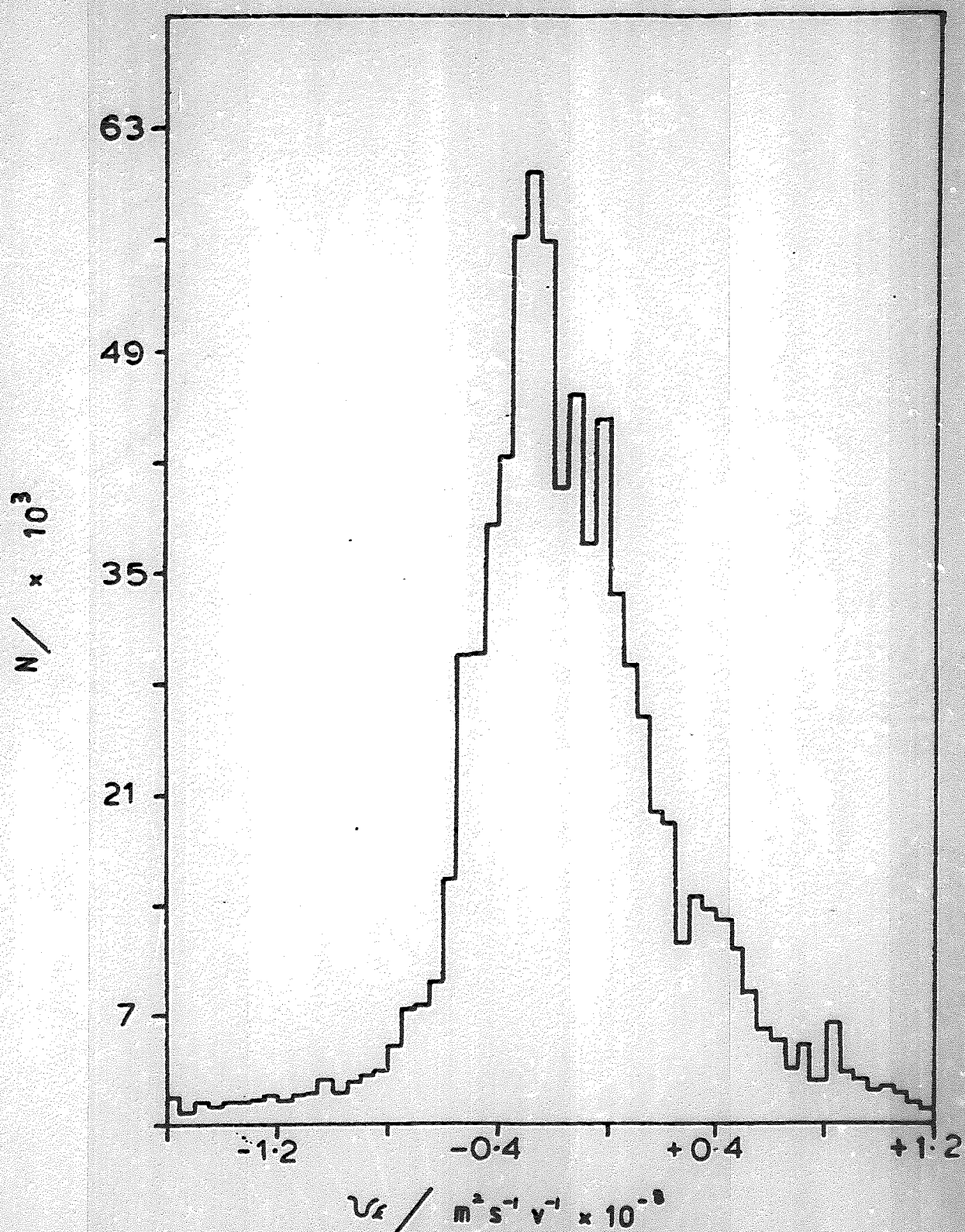
RD Rutile Pigment in aqueous solution @ pH 4.3



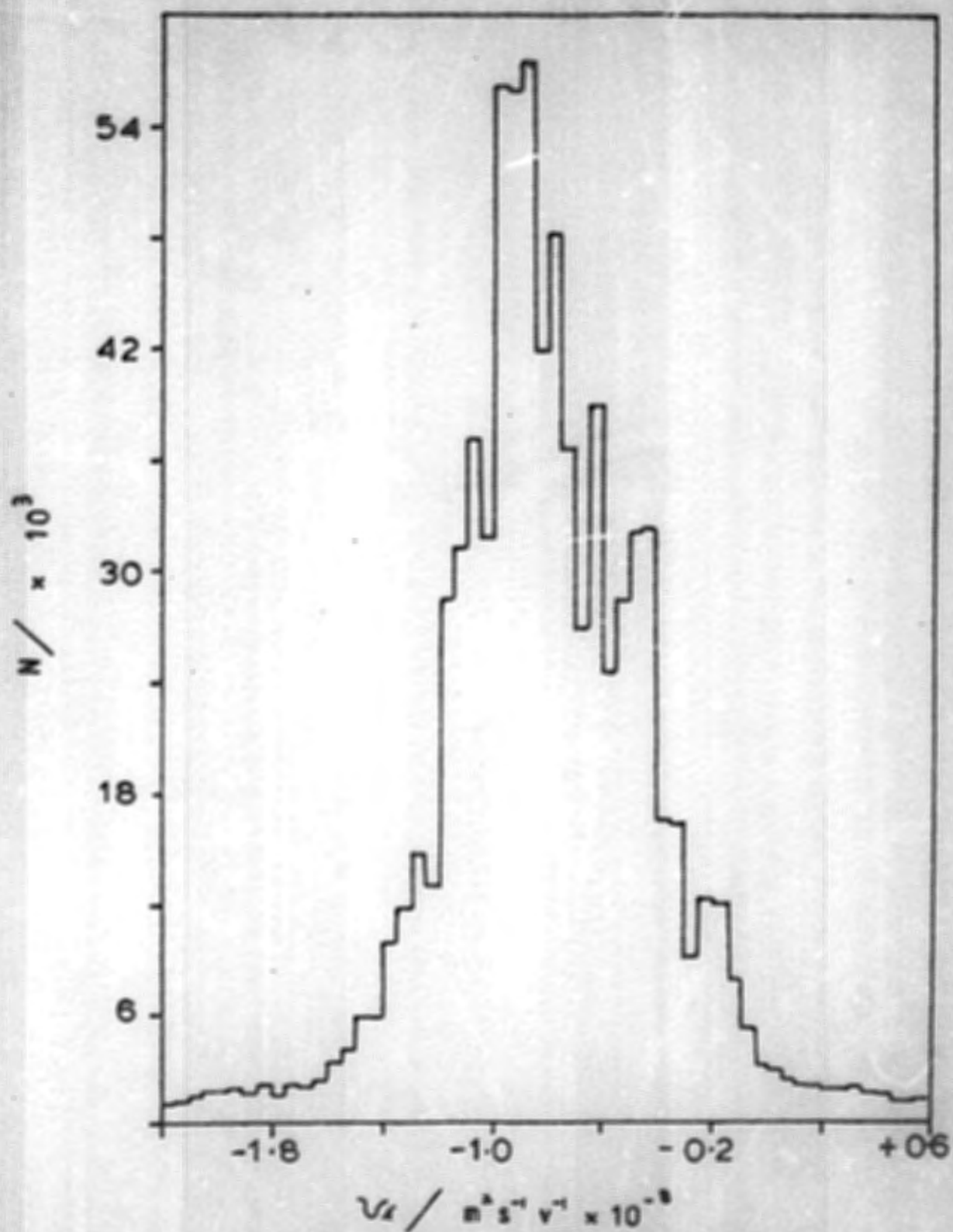
RD Rutile Pigment in aqueous solution @ pH 4.9



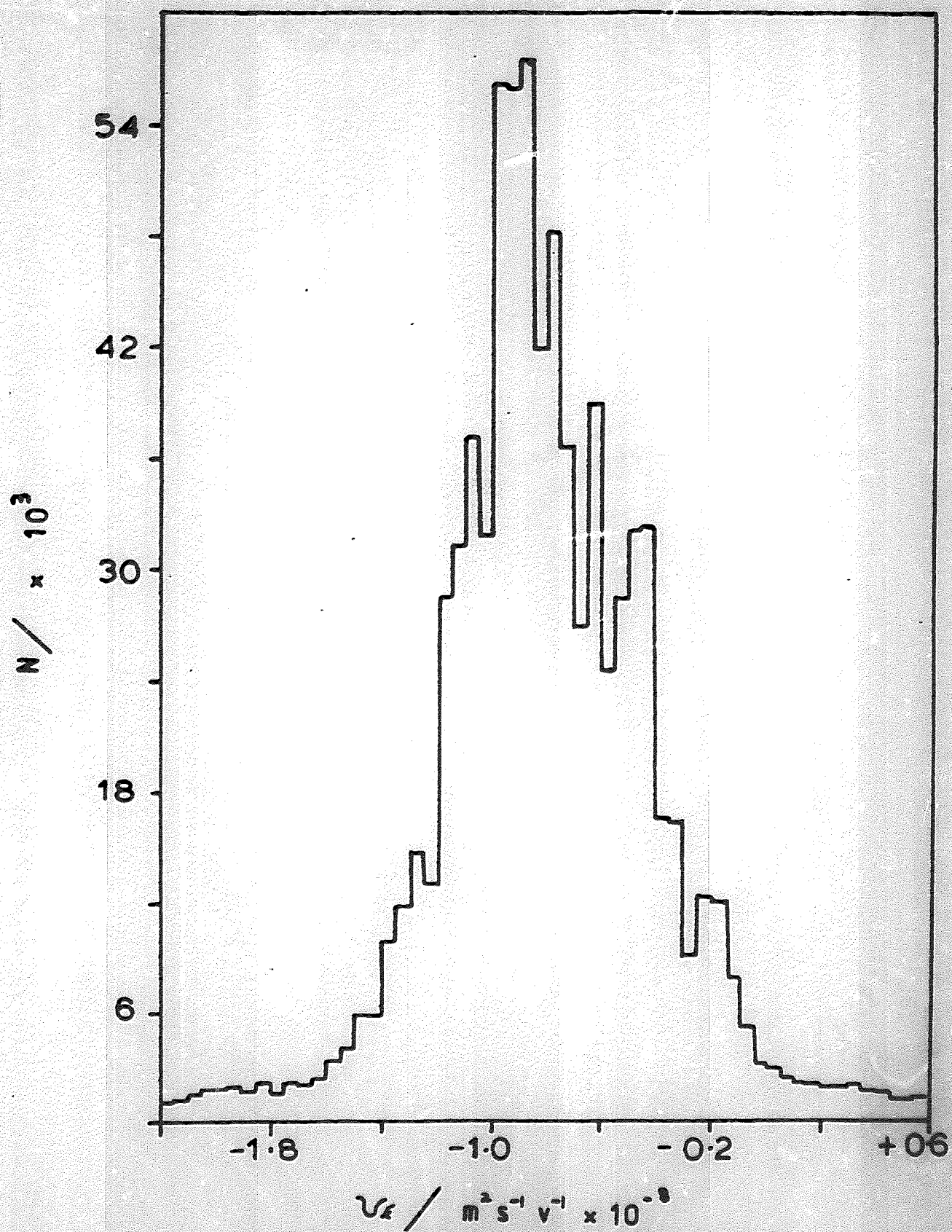
RD Rutile Pigment in aqueous solution @ pH 6.0



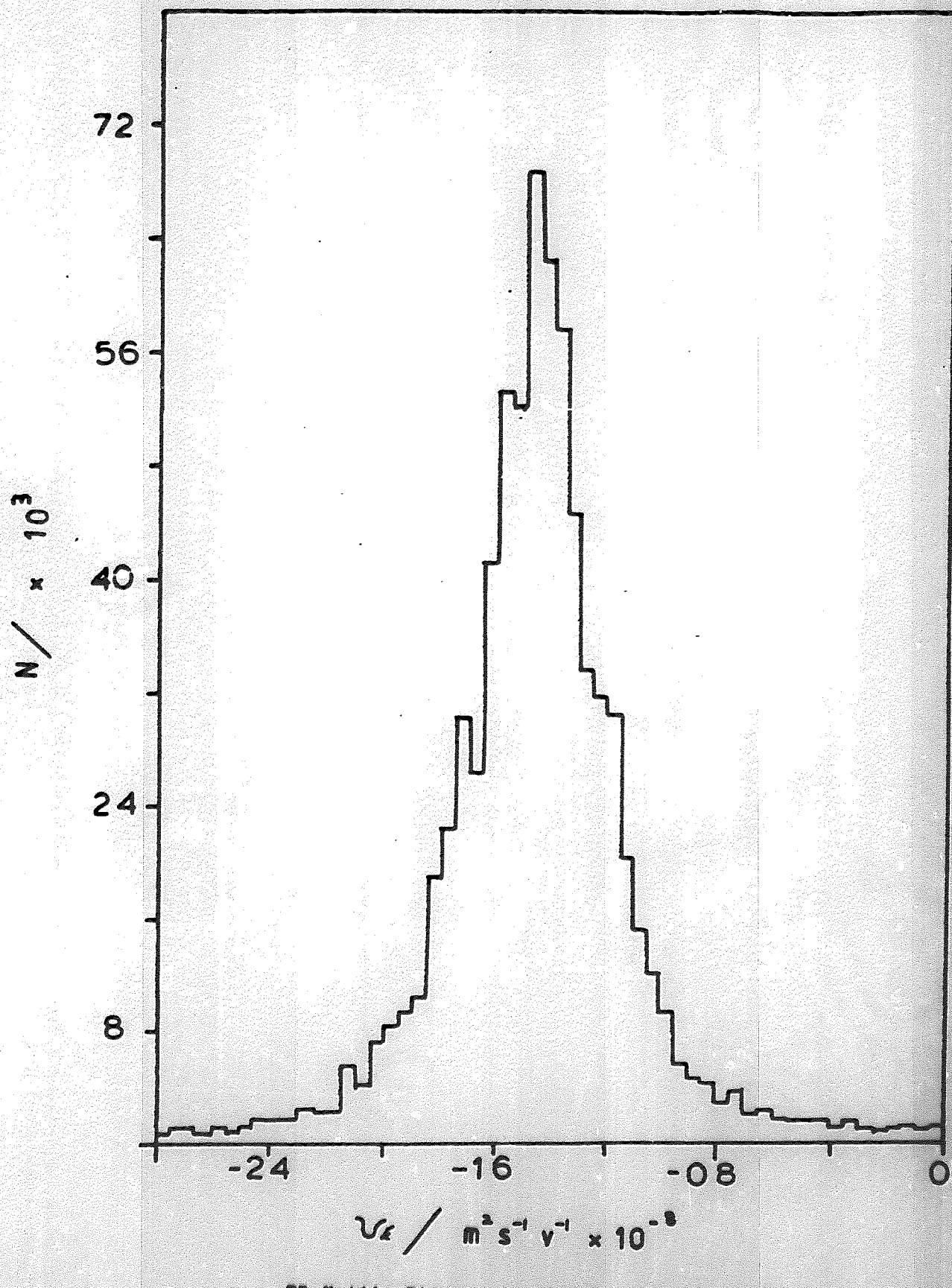
RD Rutile Pigment in aqueous solution @ pH 6.2



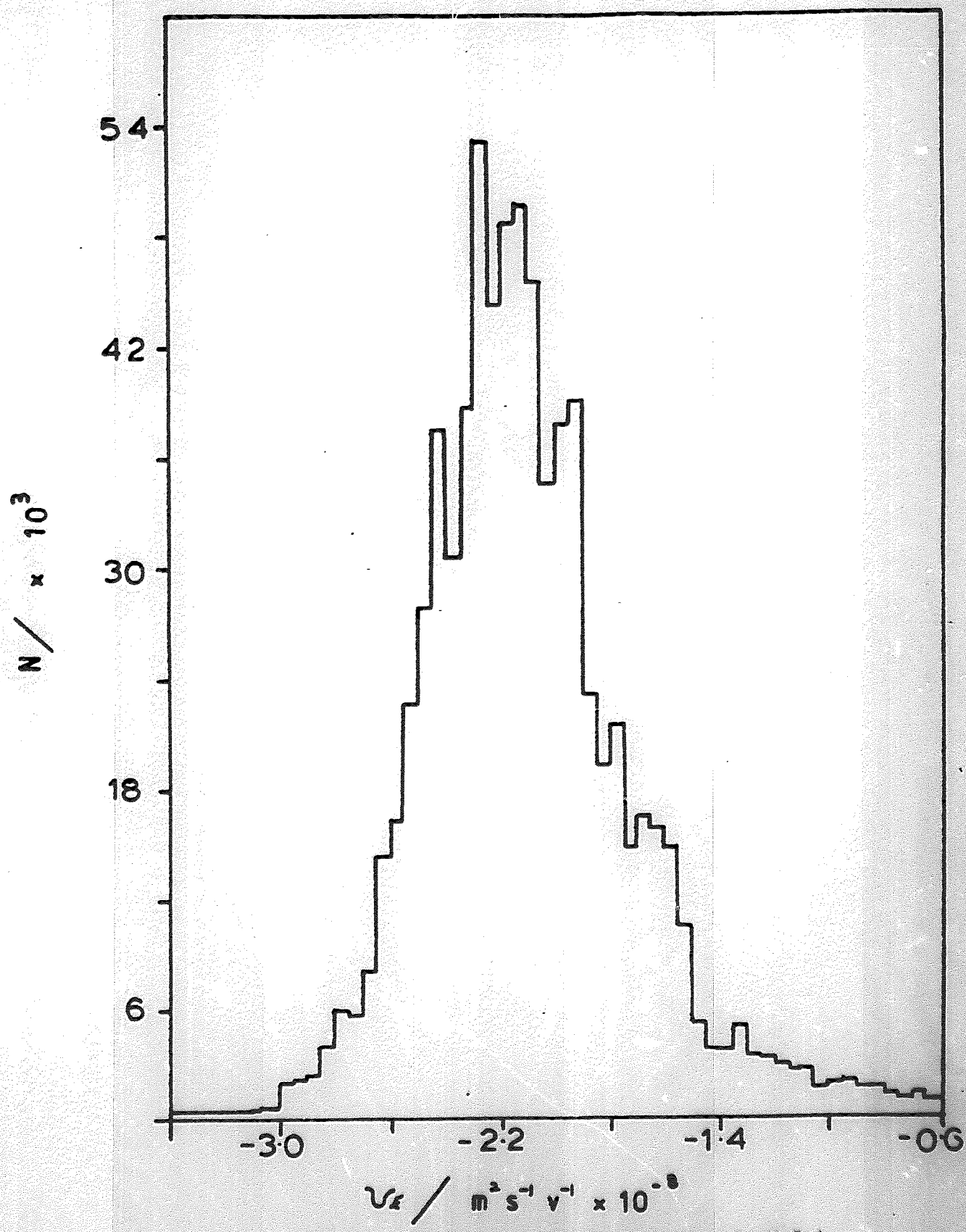
R0 Rutile Pigment in aqueous solution @ pH 6.4



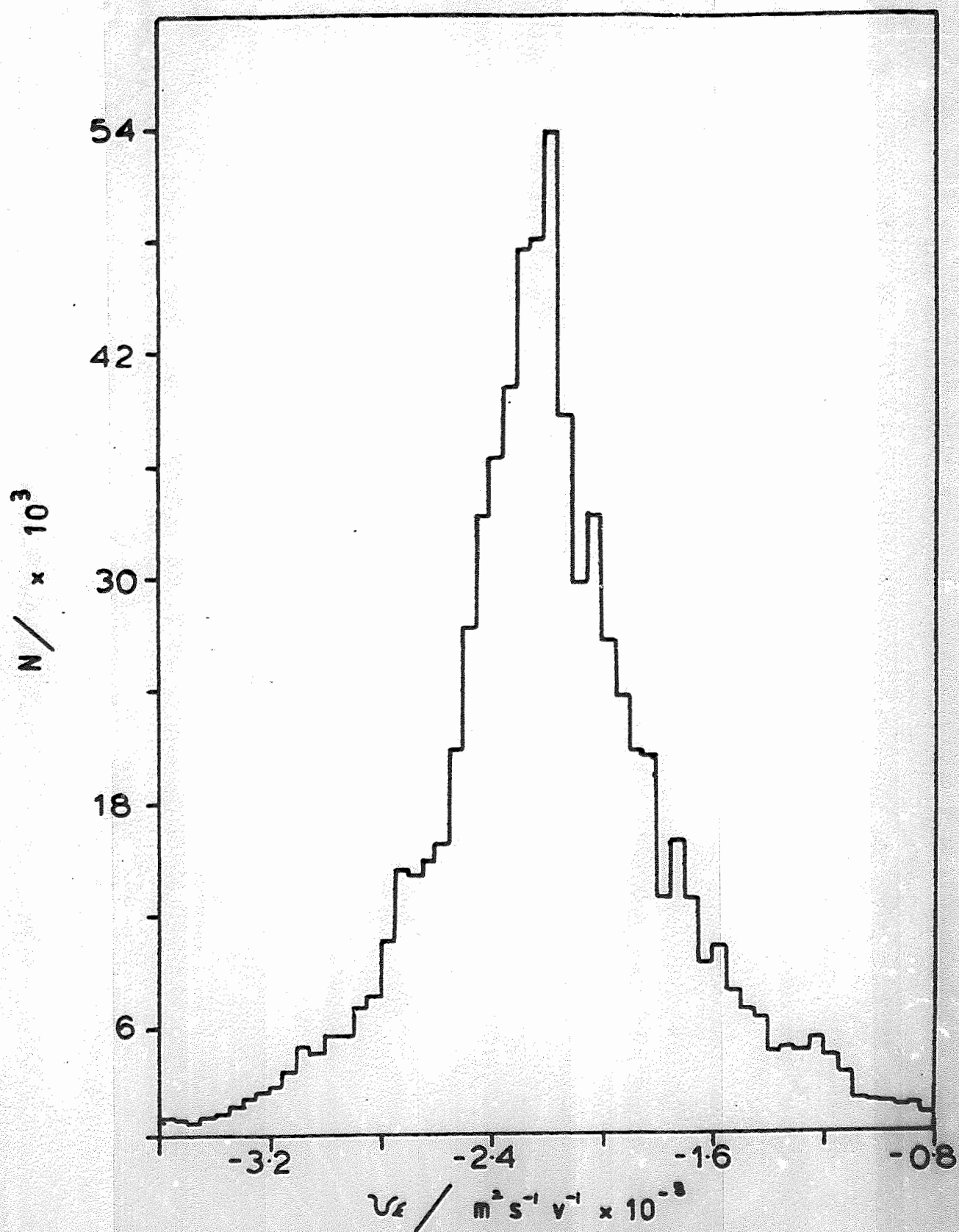
RD Rutile Pigment in aqueous solution @ pH 6.4



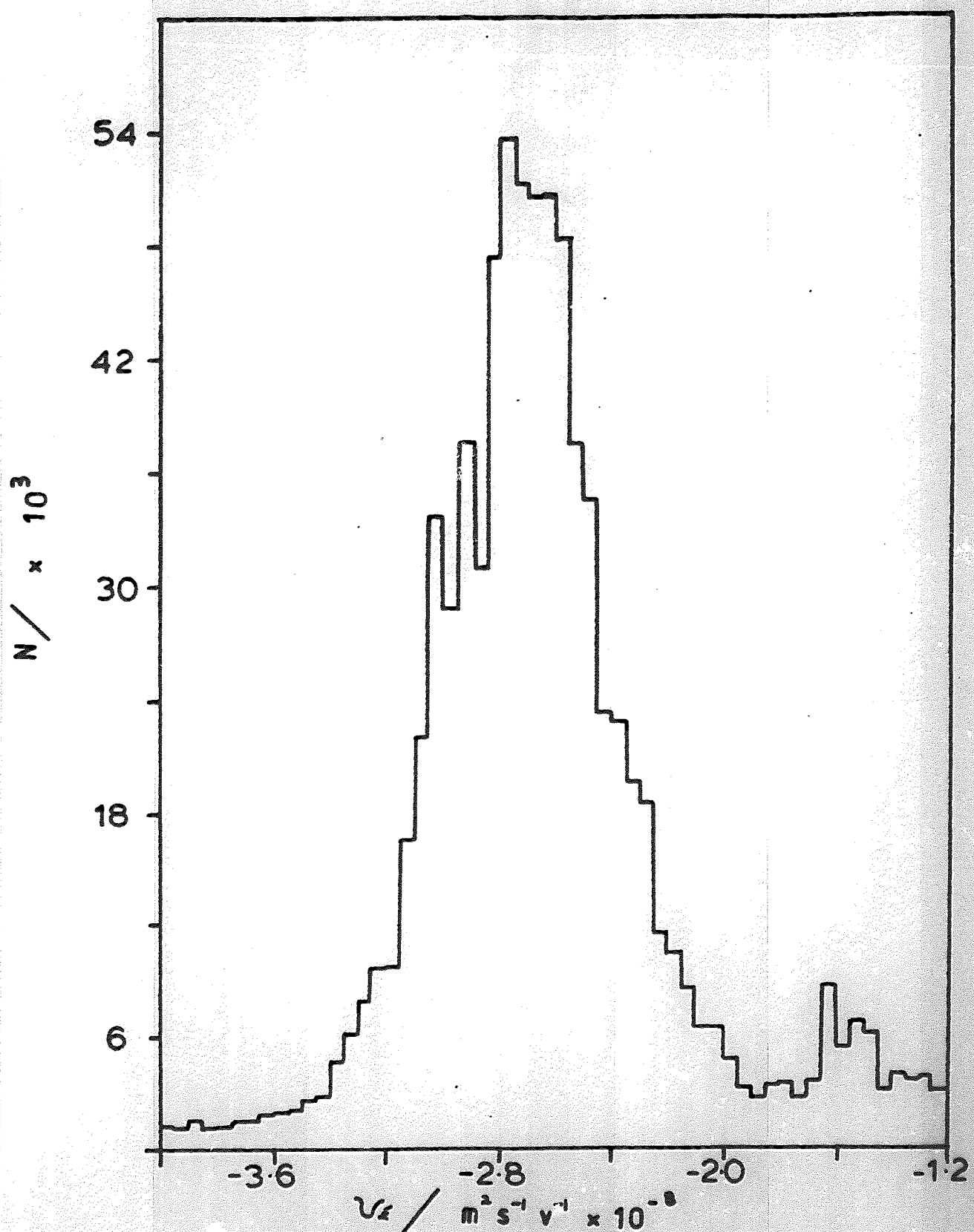
RD Rutile Pigment in aqueous solution @ pH 6.7



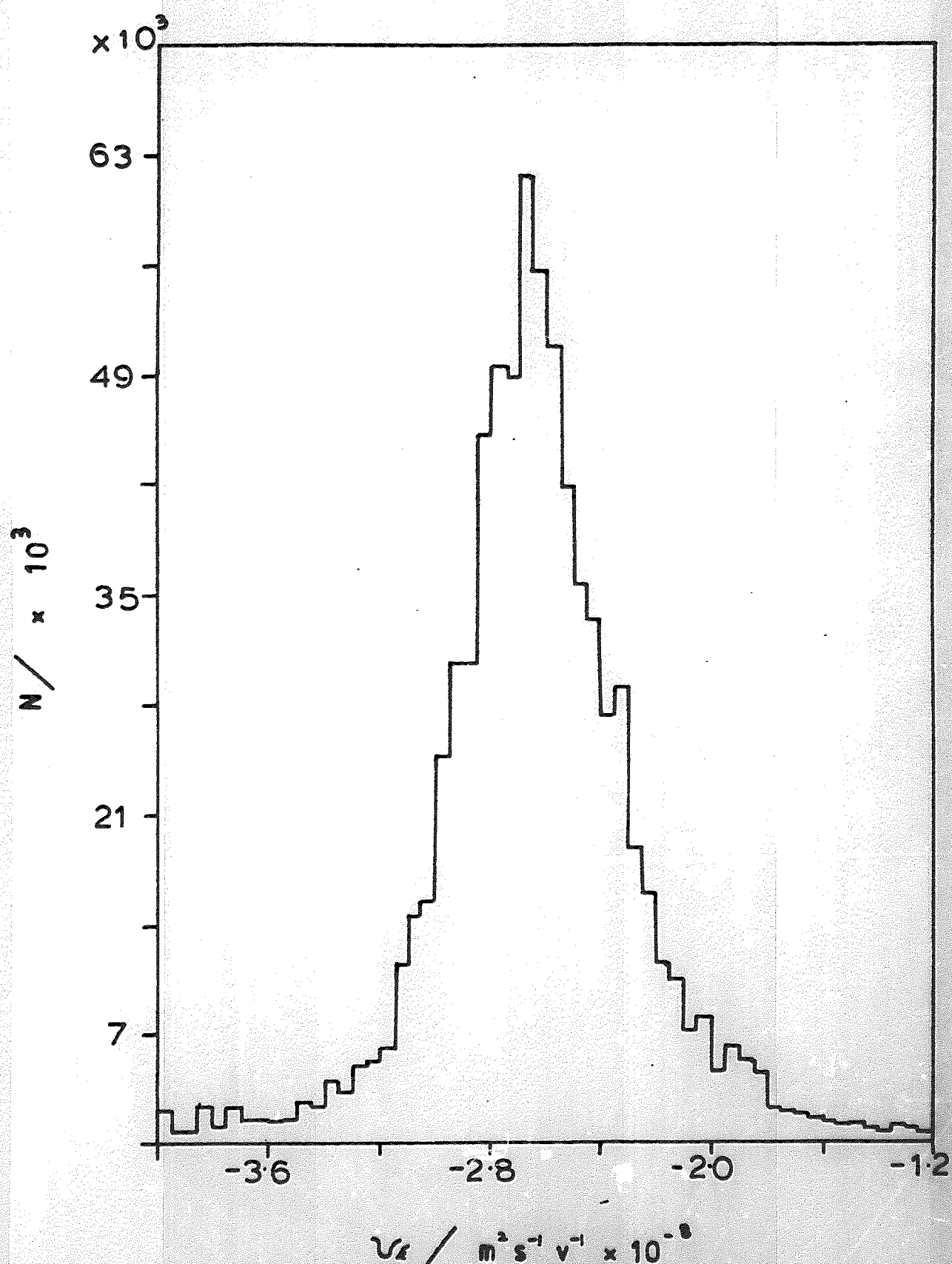
RD Rutile Pigment in aqueous solution @ pH 8.1



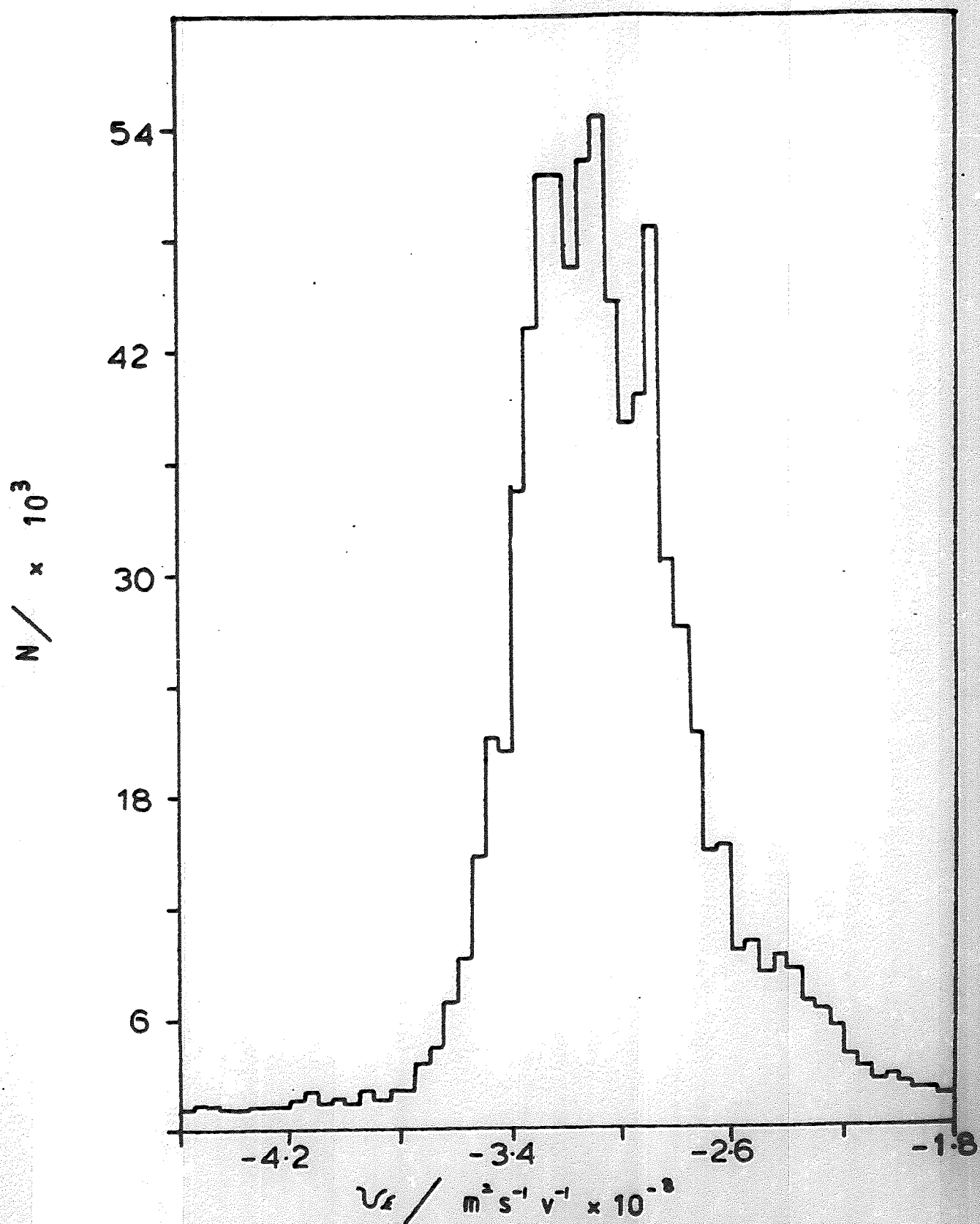
RD Rutile Pigment in aqueous solution @ pH 8.9



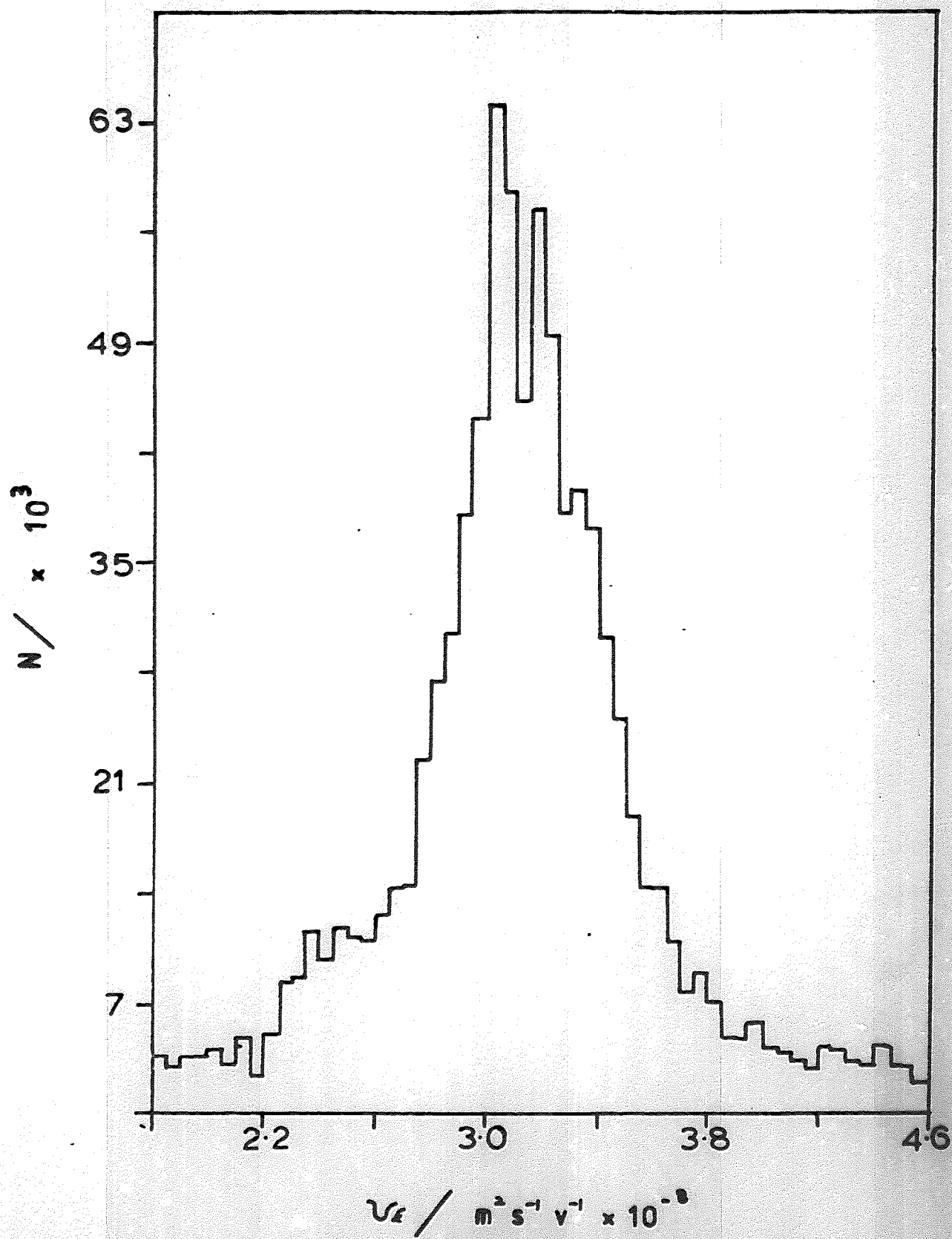
RD Rutile Pigment in aqueous solution @ pH 9.6

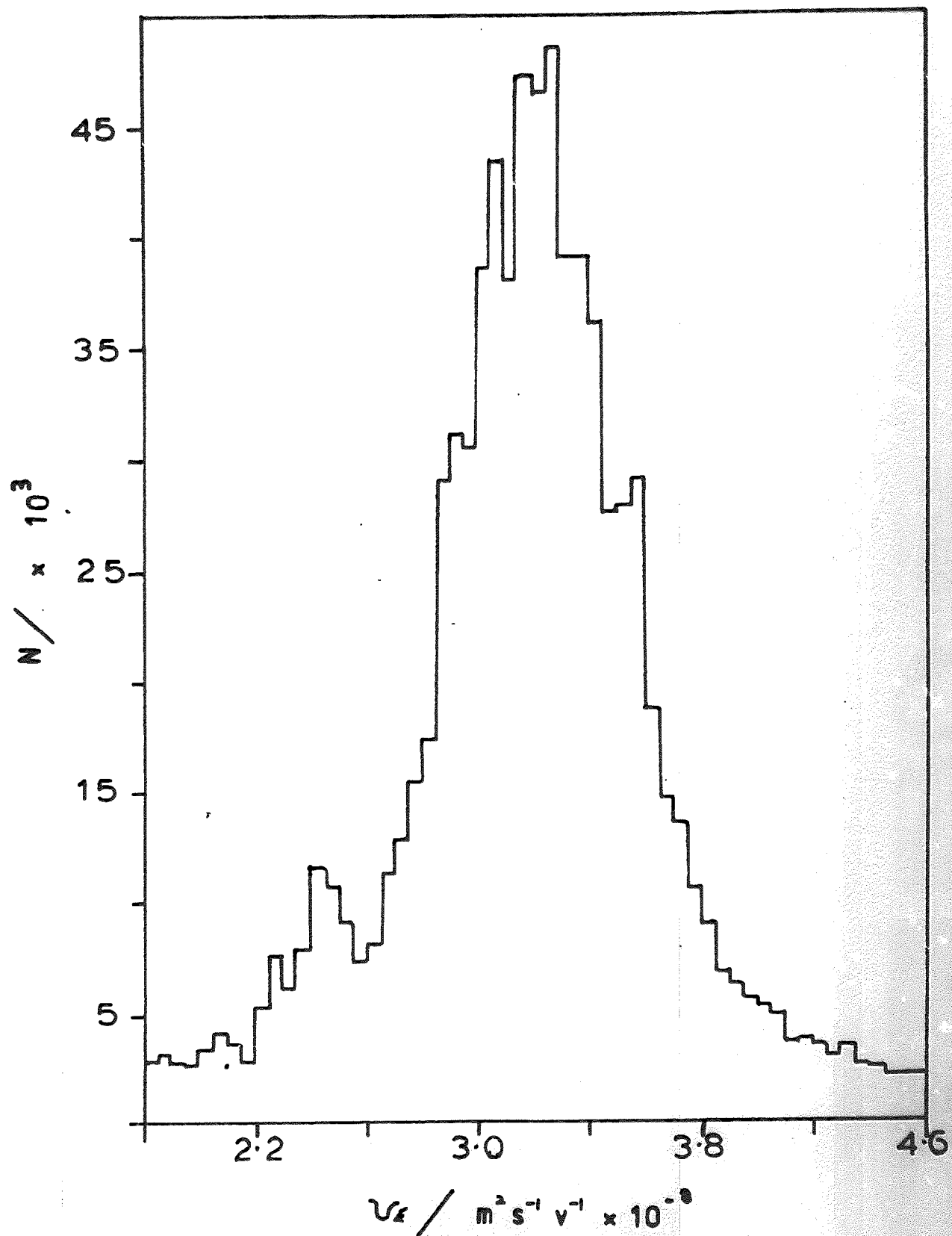


RD Rutile Pigment in aqueous solution @ pH 9.9

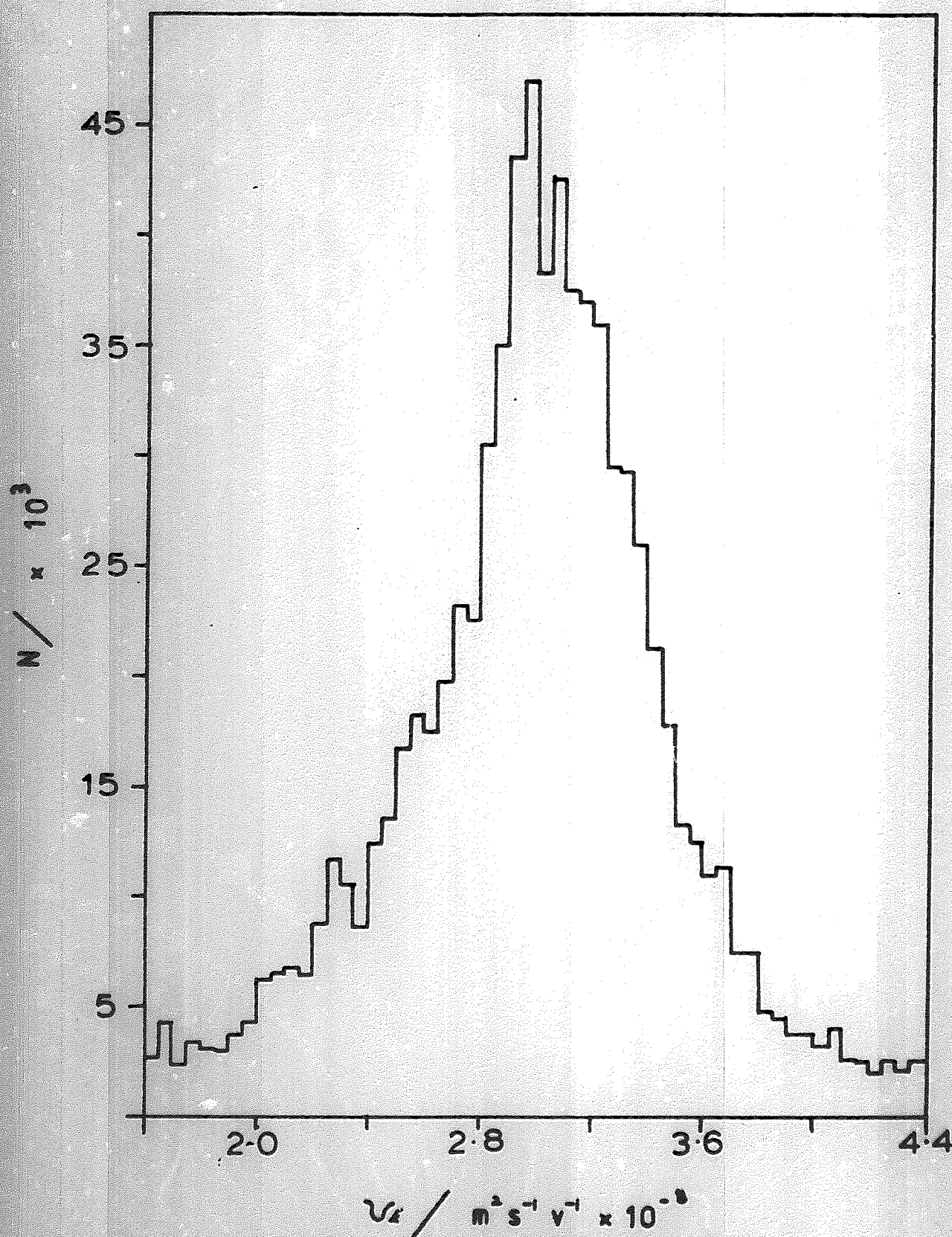


RD Rutile Pigment in aqueous solution @ pH 10.5

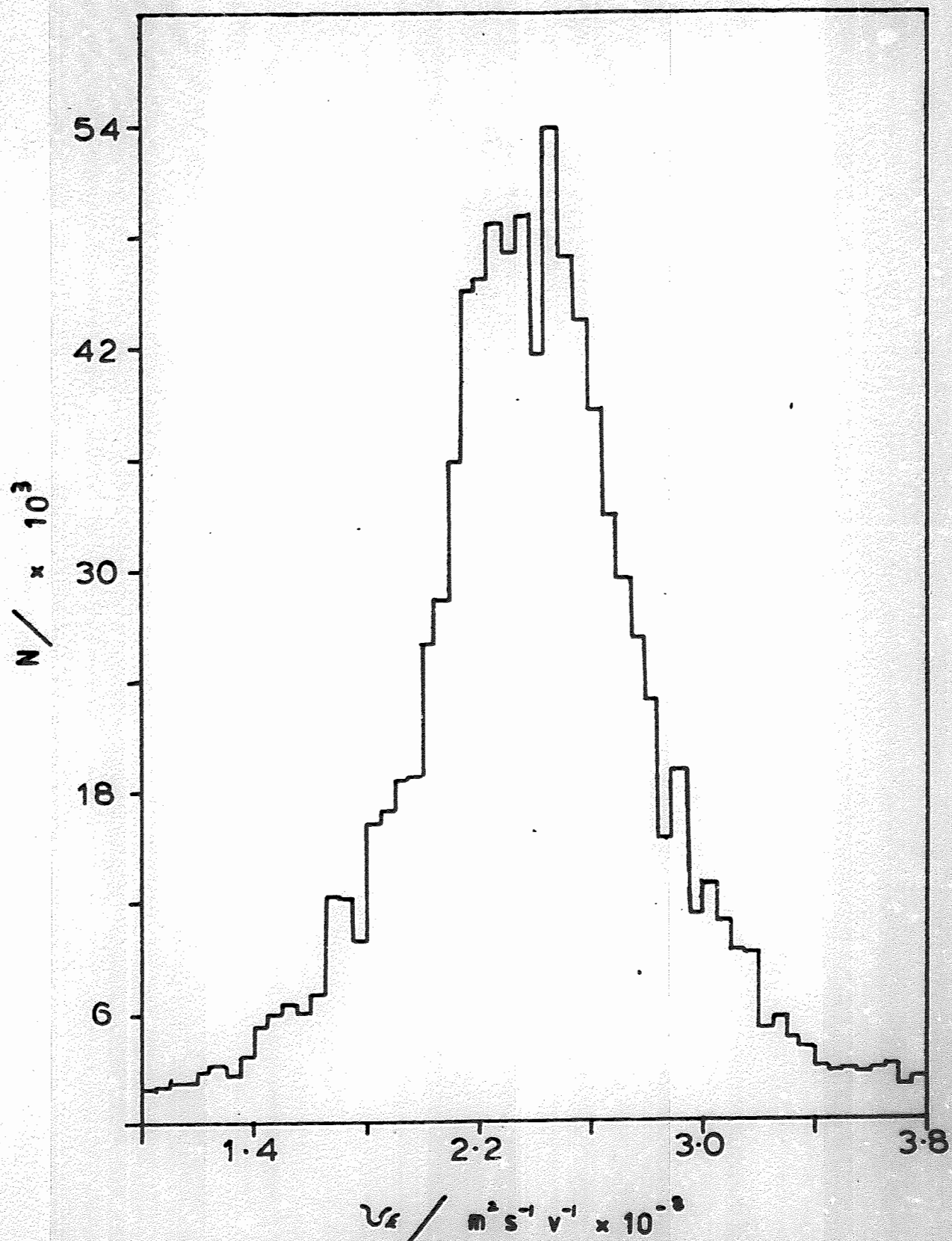




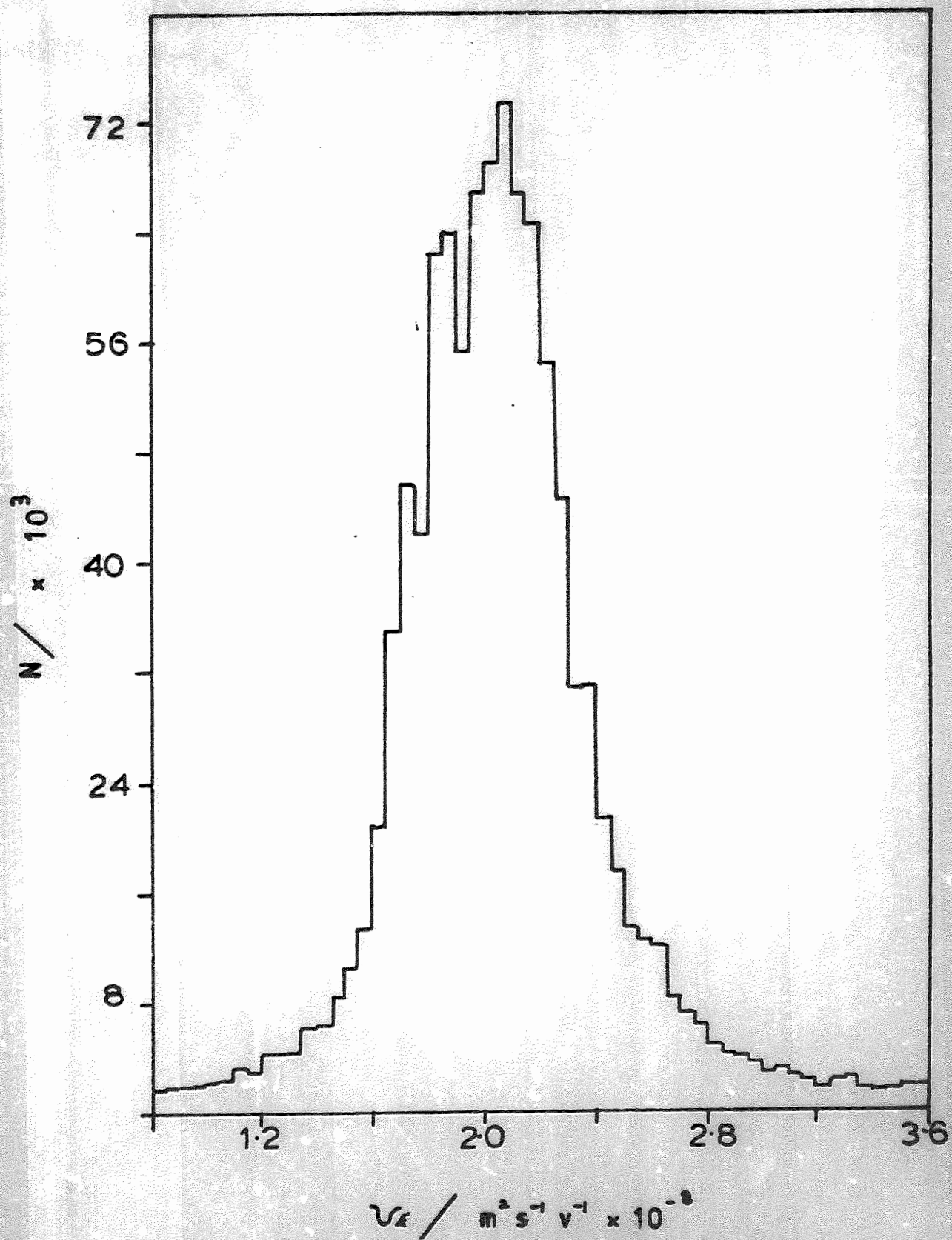
Hydral Pigment in aqueous solution @ pH 7.1



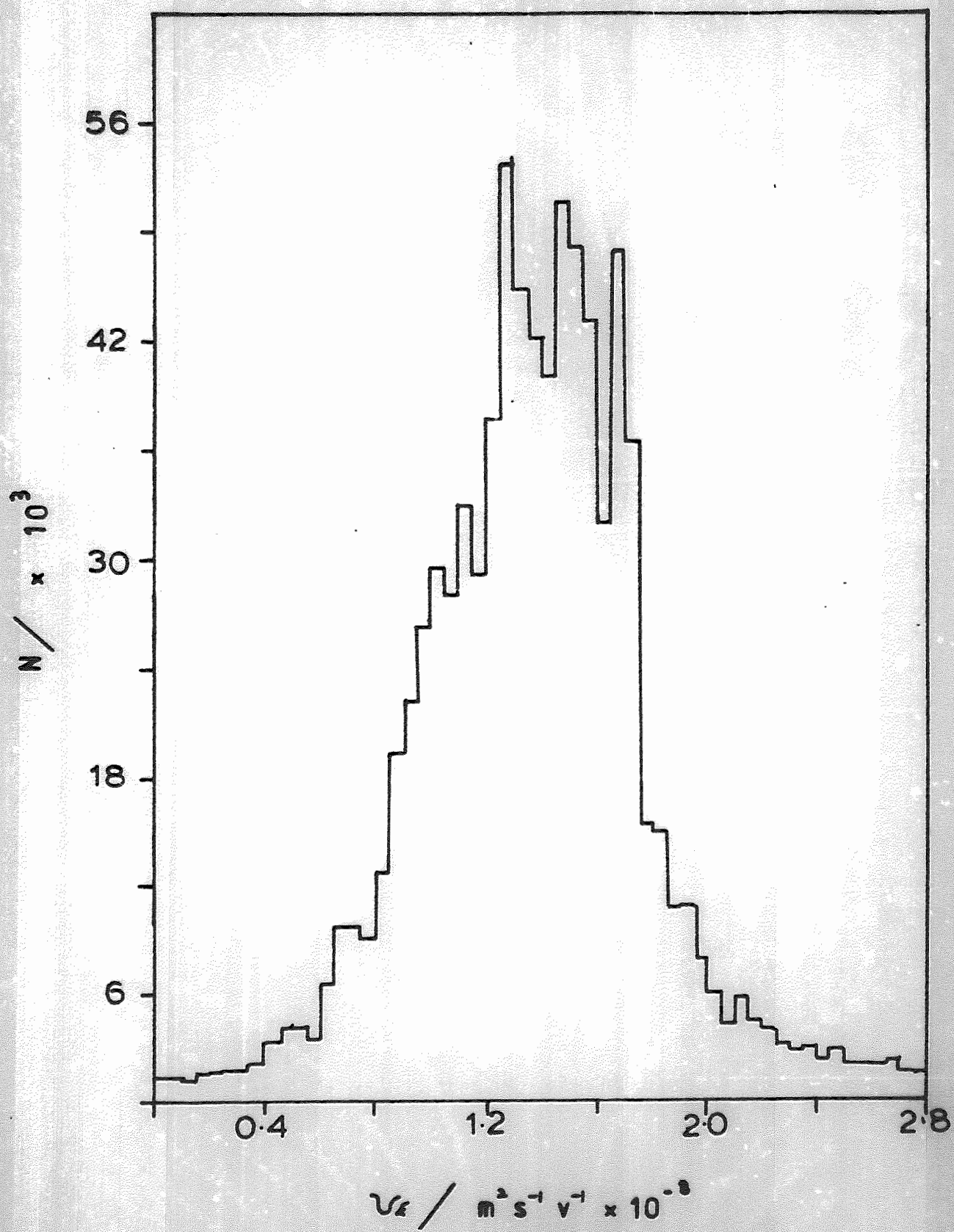
Hydral Pigment in aqueous solution @ pH 7.6



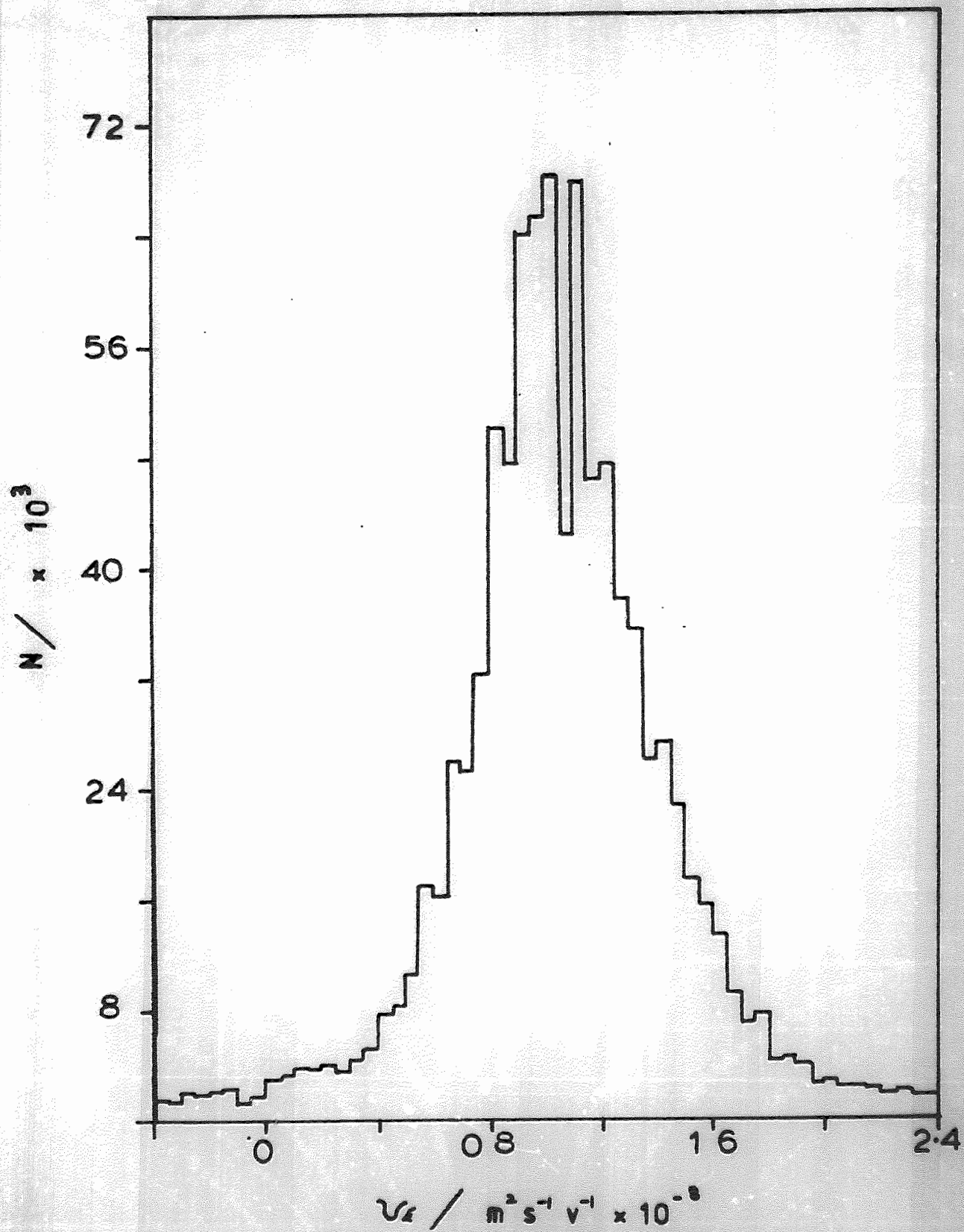
Hydral Pigment in aqueous solution @ pH 8.3



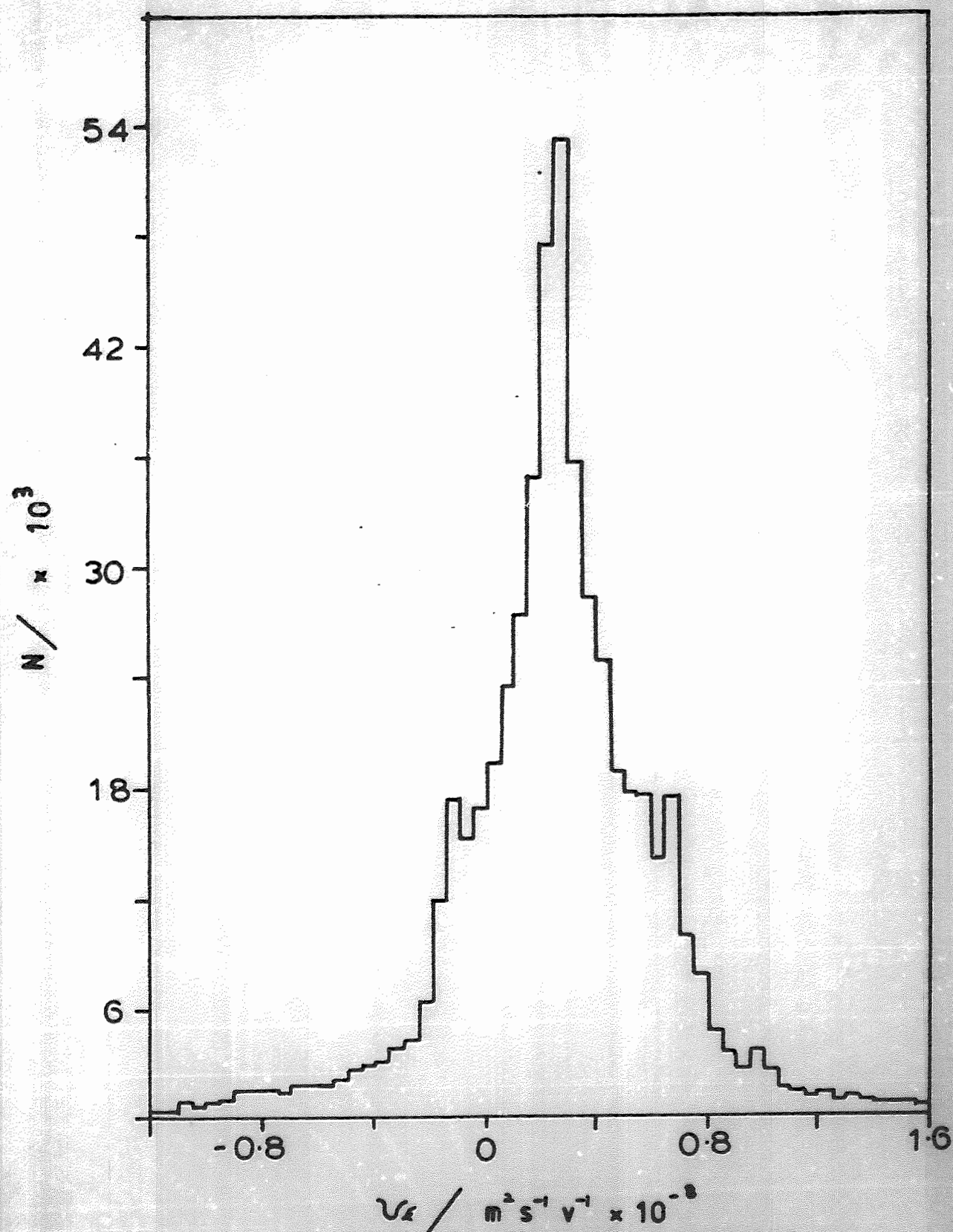
Hydral Pigment in aqueous solution @ pH 8.7



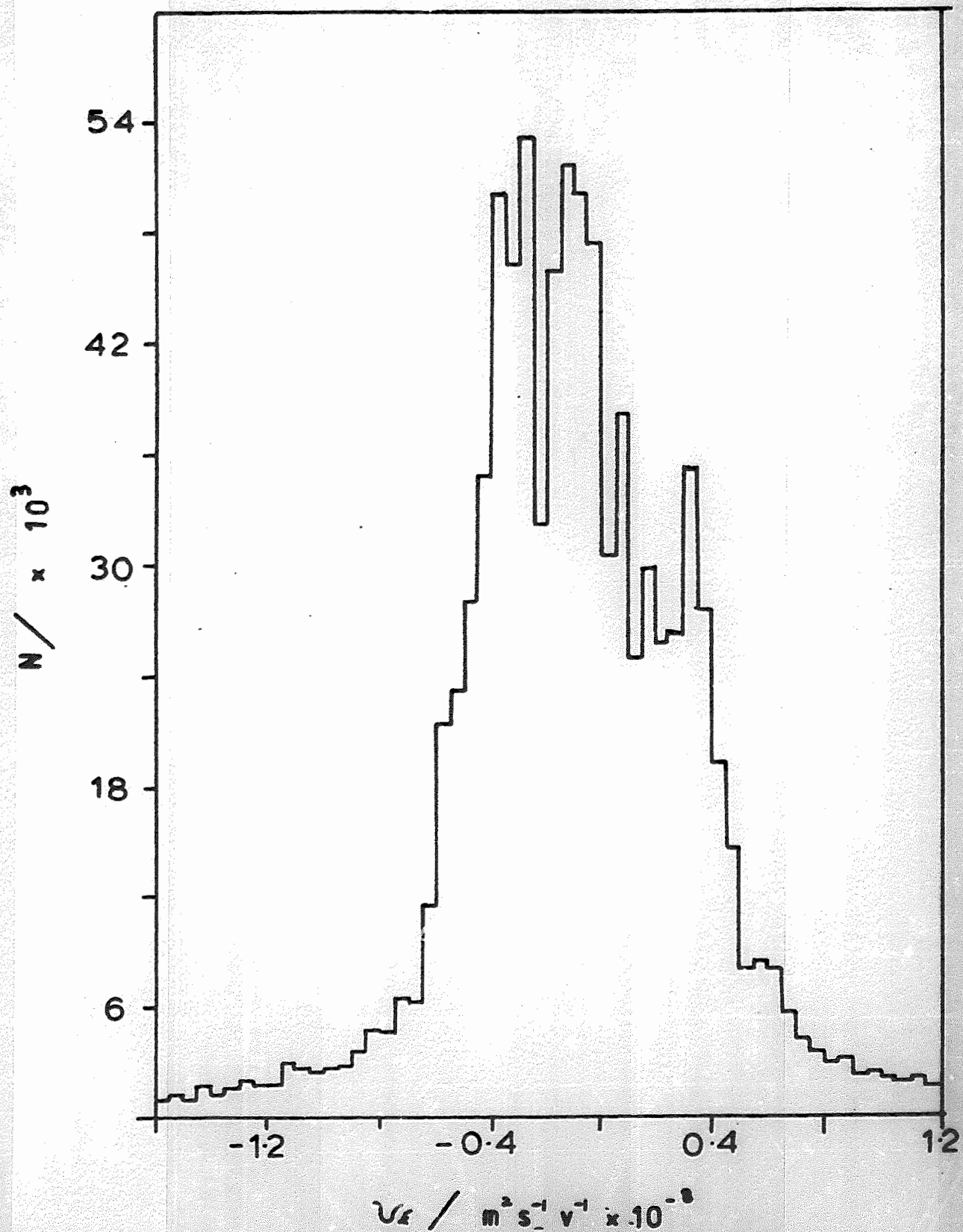
Hydral Pigment in aqueous solution @ pH 9.1



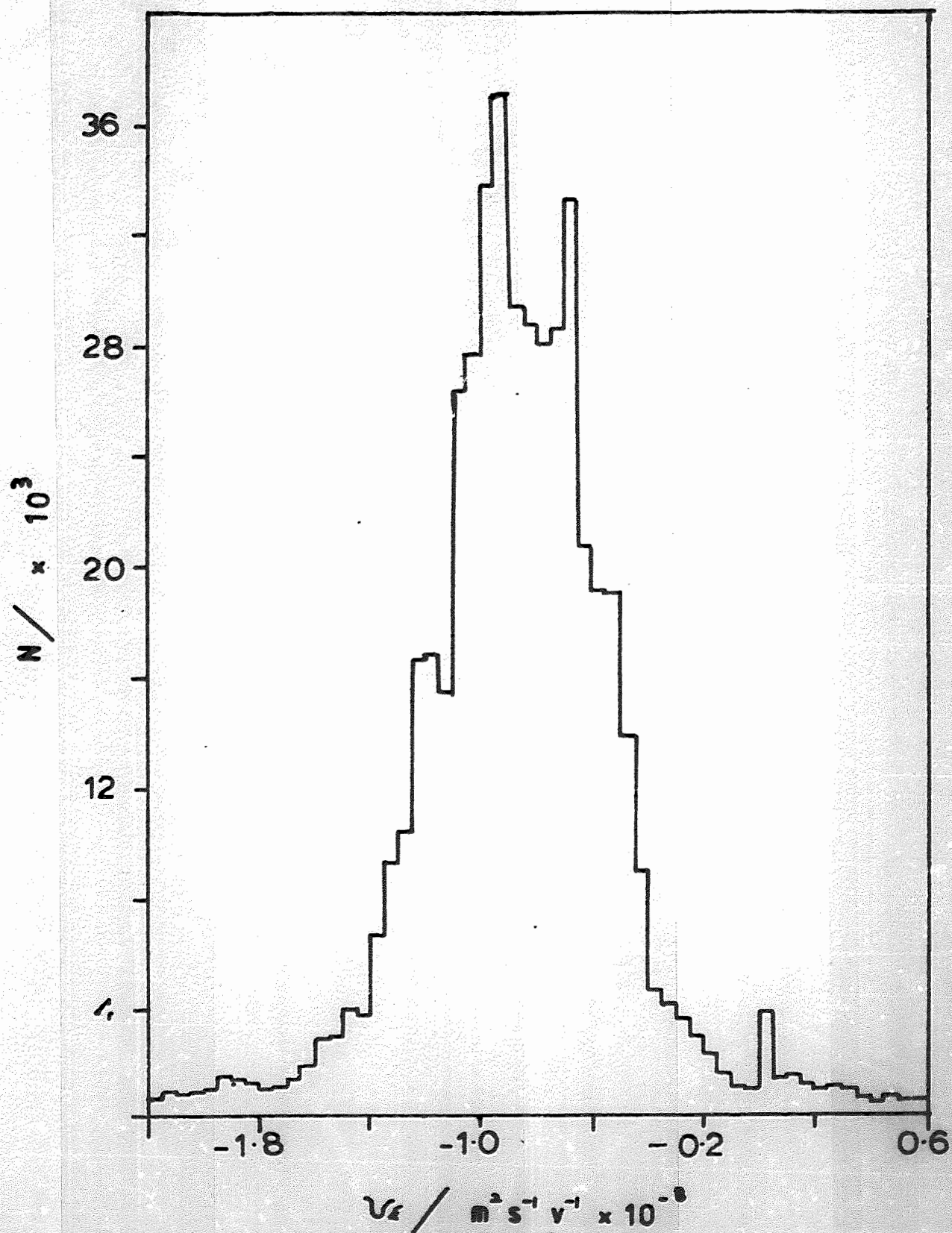
Hydral Pigment in aqueous solution @ pH 9.4



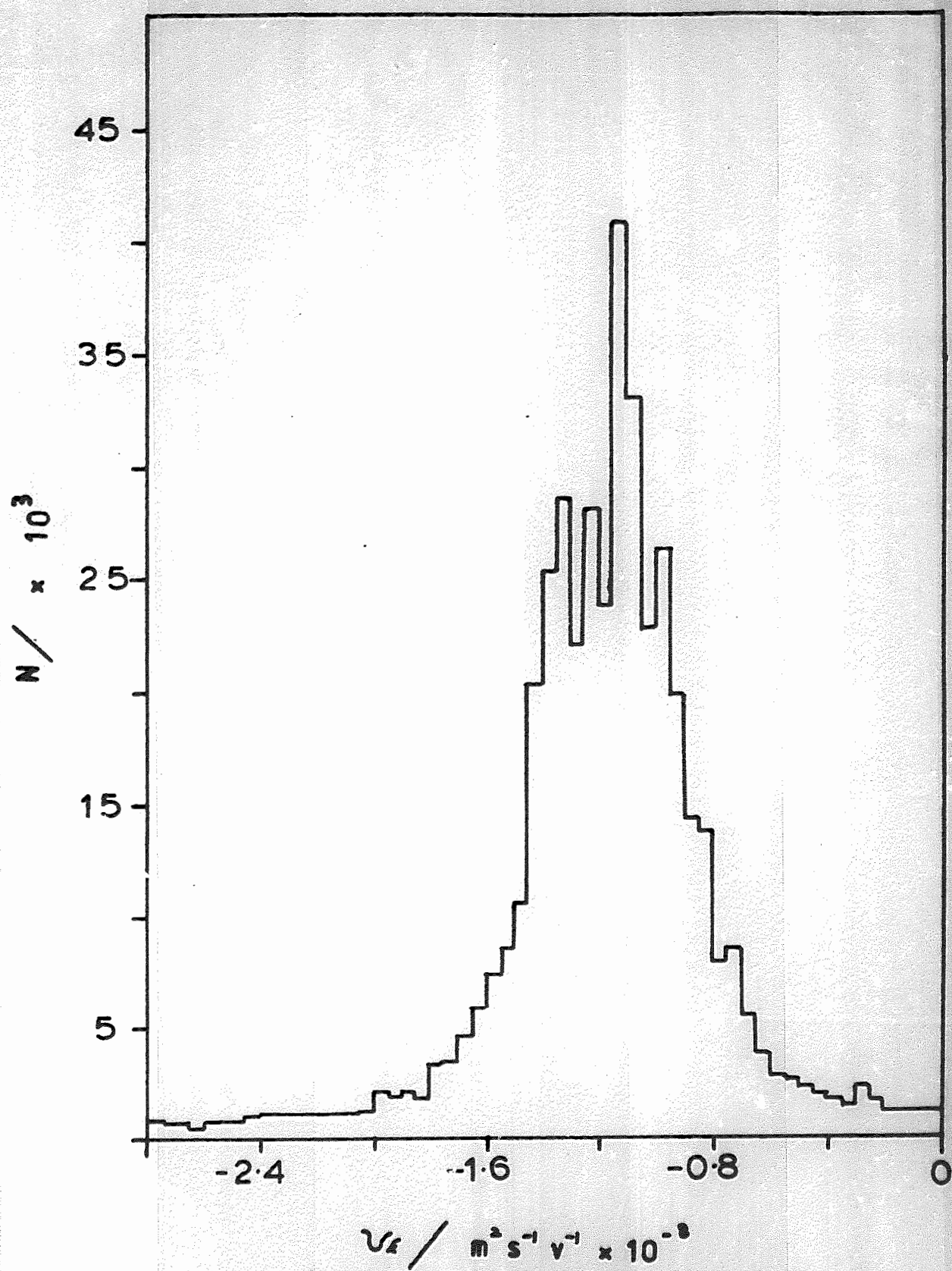
Hydral Pigment in aqueous solution @ pH 9.8



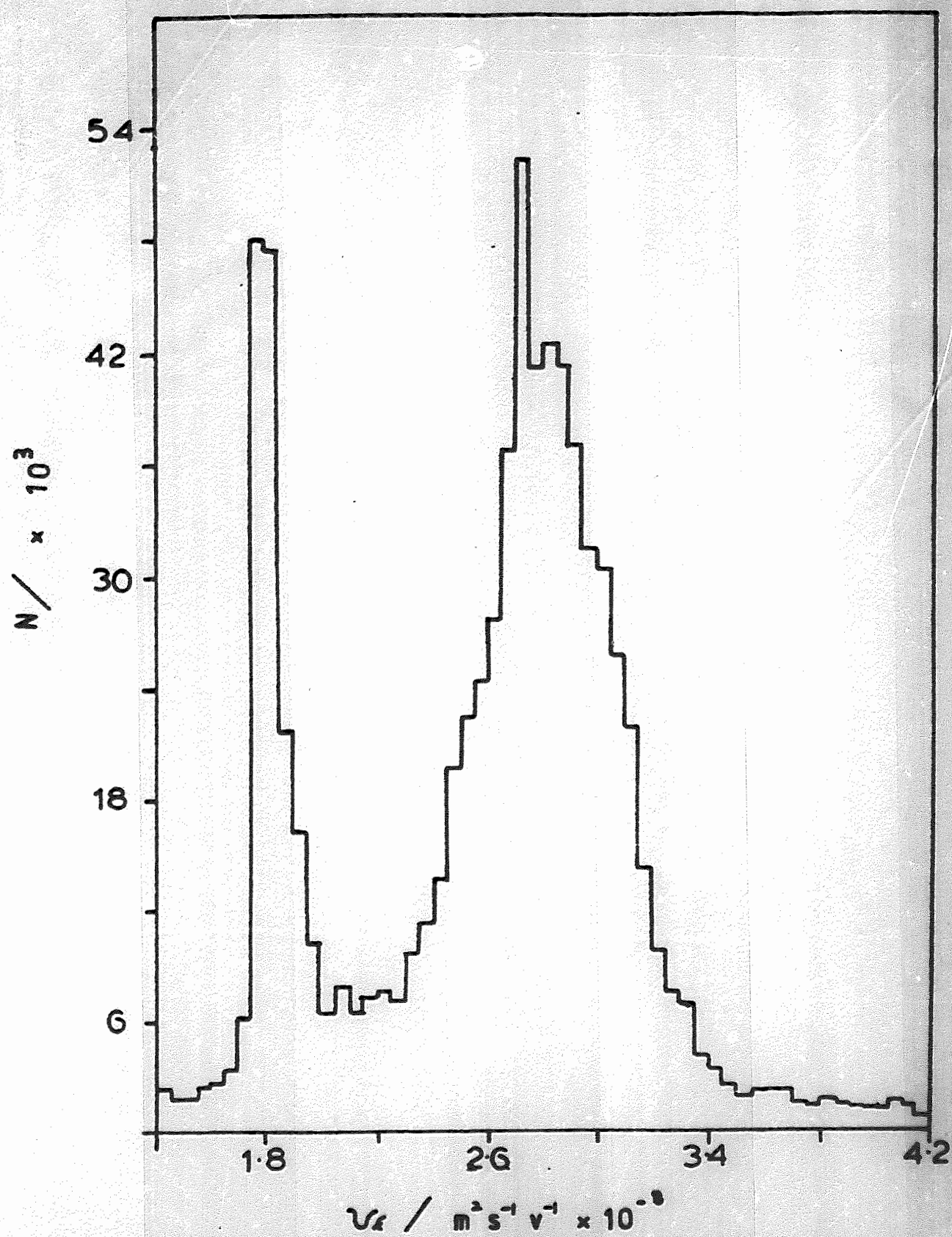
$v_k / m^2 s^{-1} v^{-1} \times 10^{-8}$
Hydral Pigment in aqueous solution @ pH 10.1



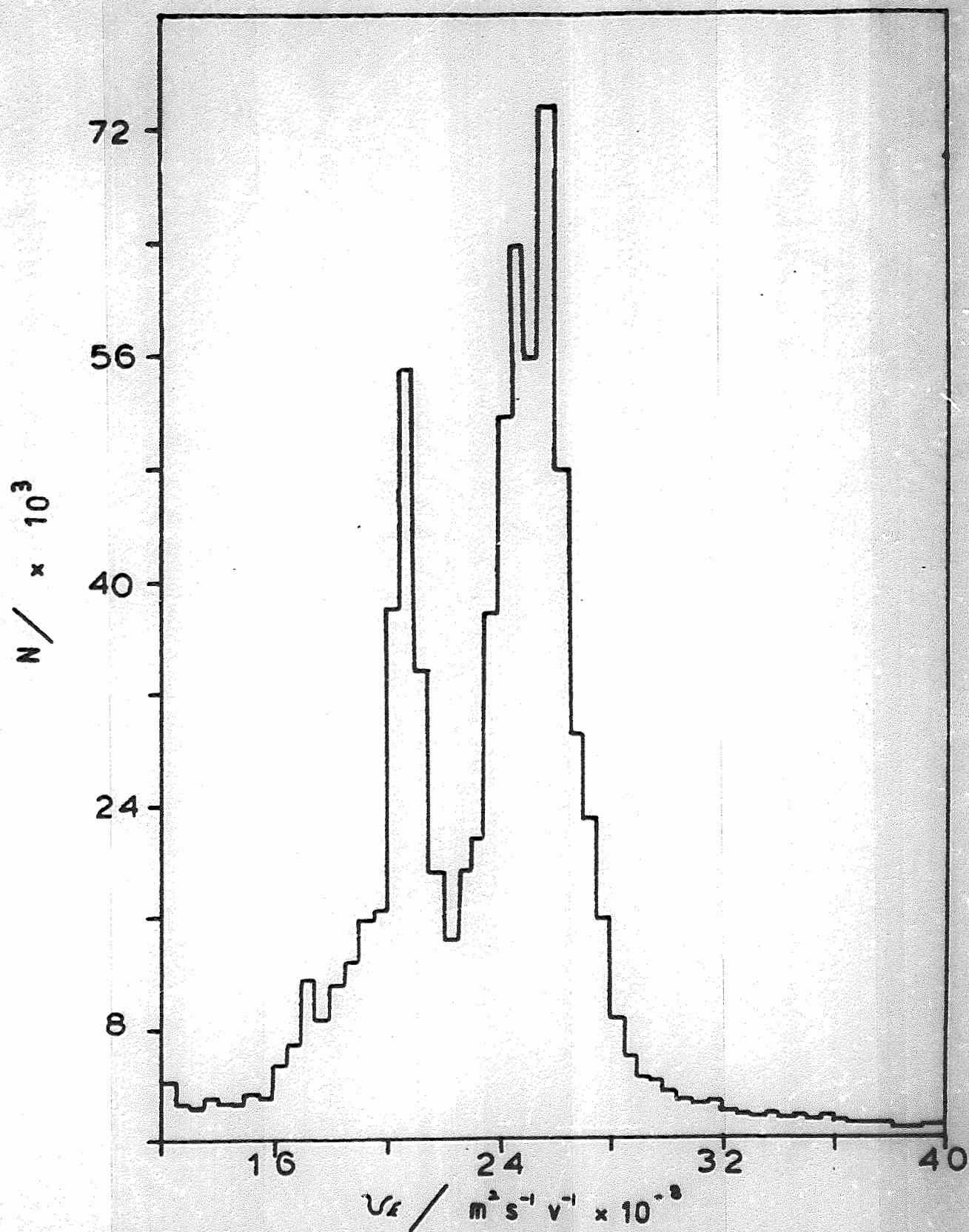
Hydral Pigment in aqueous solution @ pH 11.0



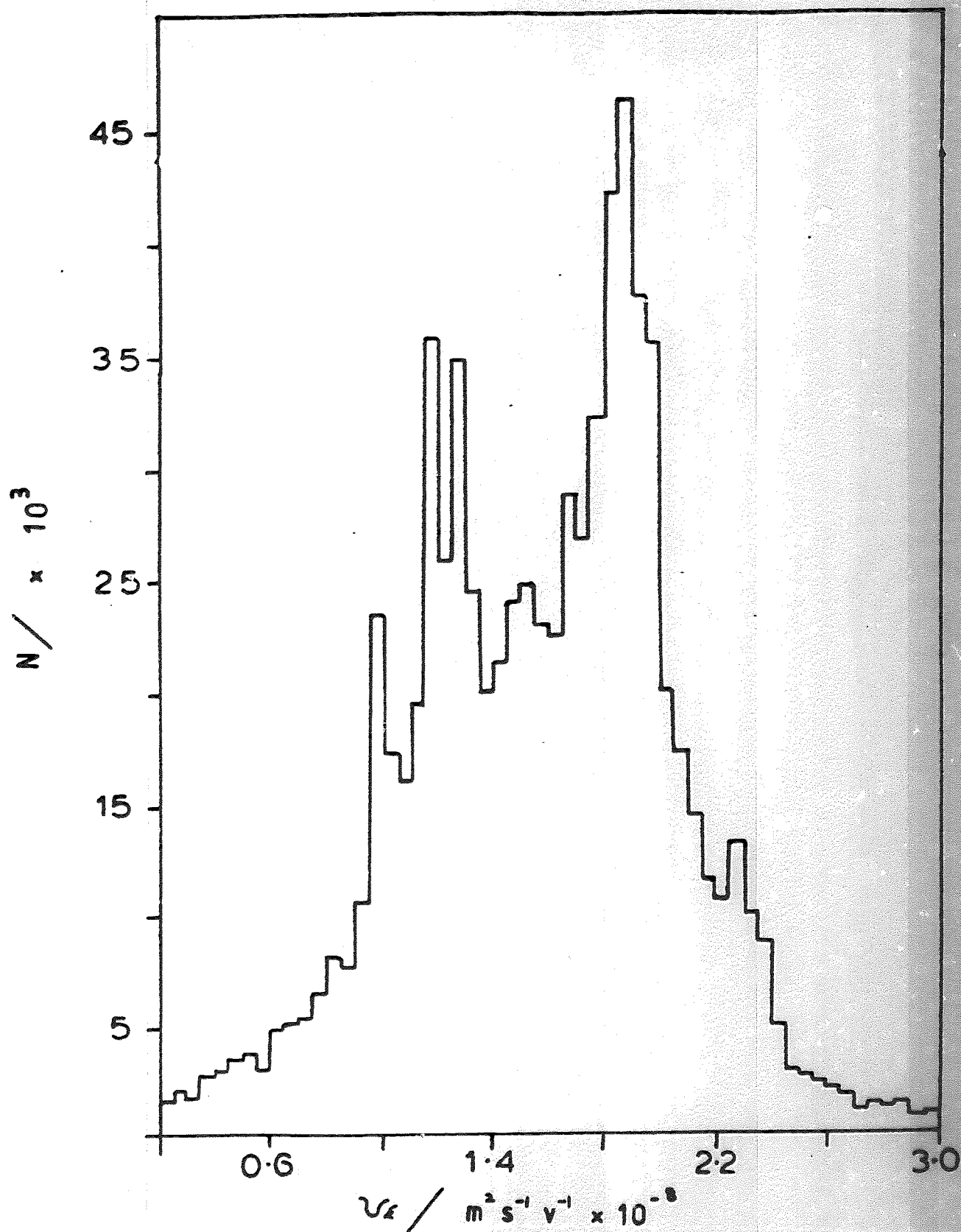
Hydral Pigment in aqueous solution @ pH 11.1



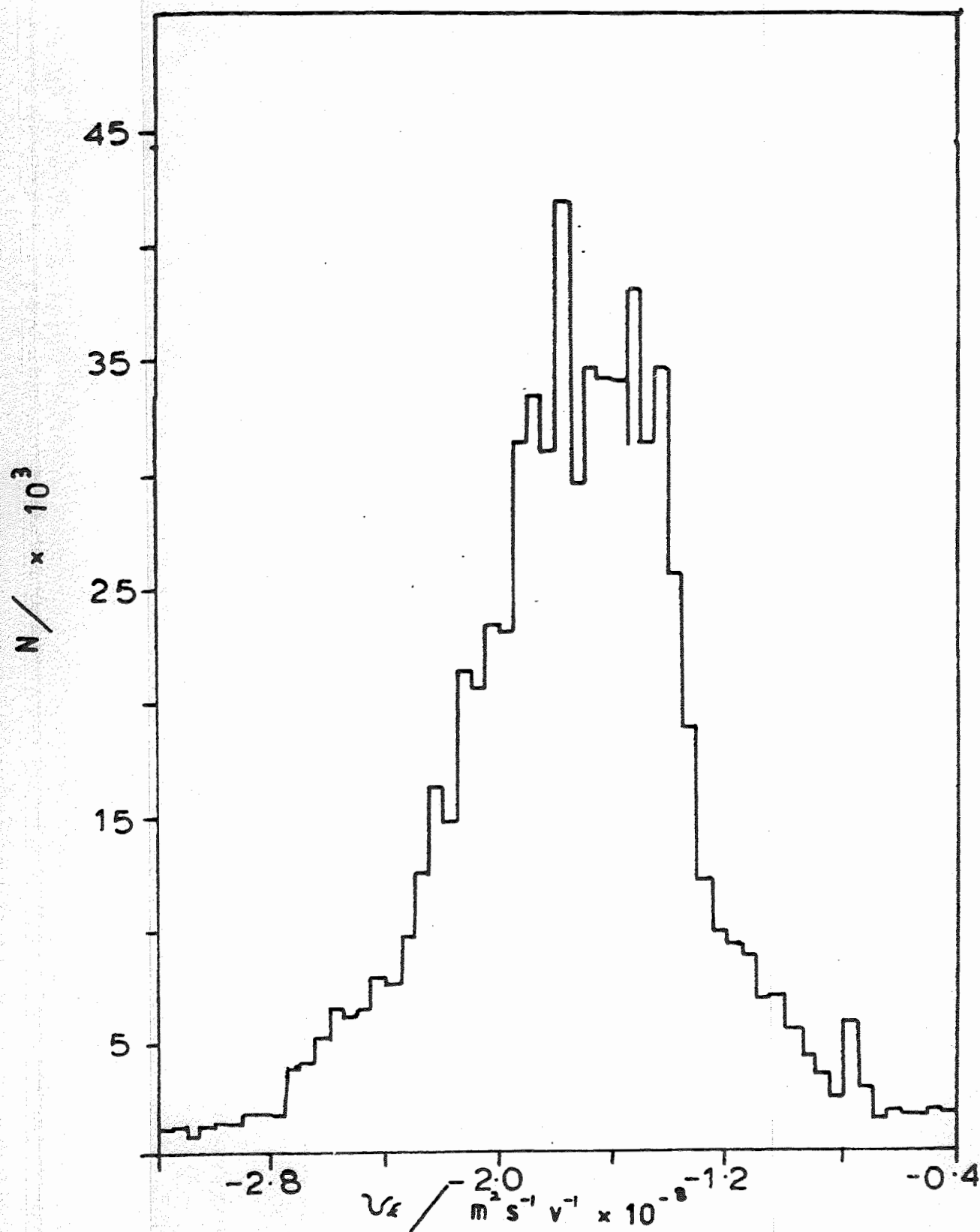
RD Rutile Pigment in Aluminium Sulphate solution (10^{-6} mol kg) @ pH 5.1



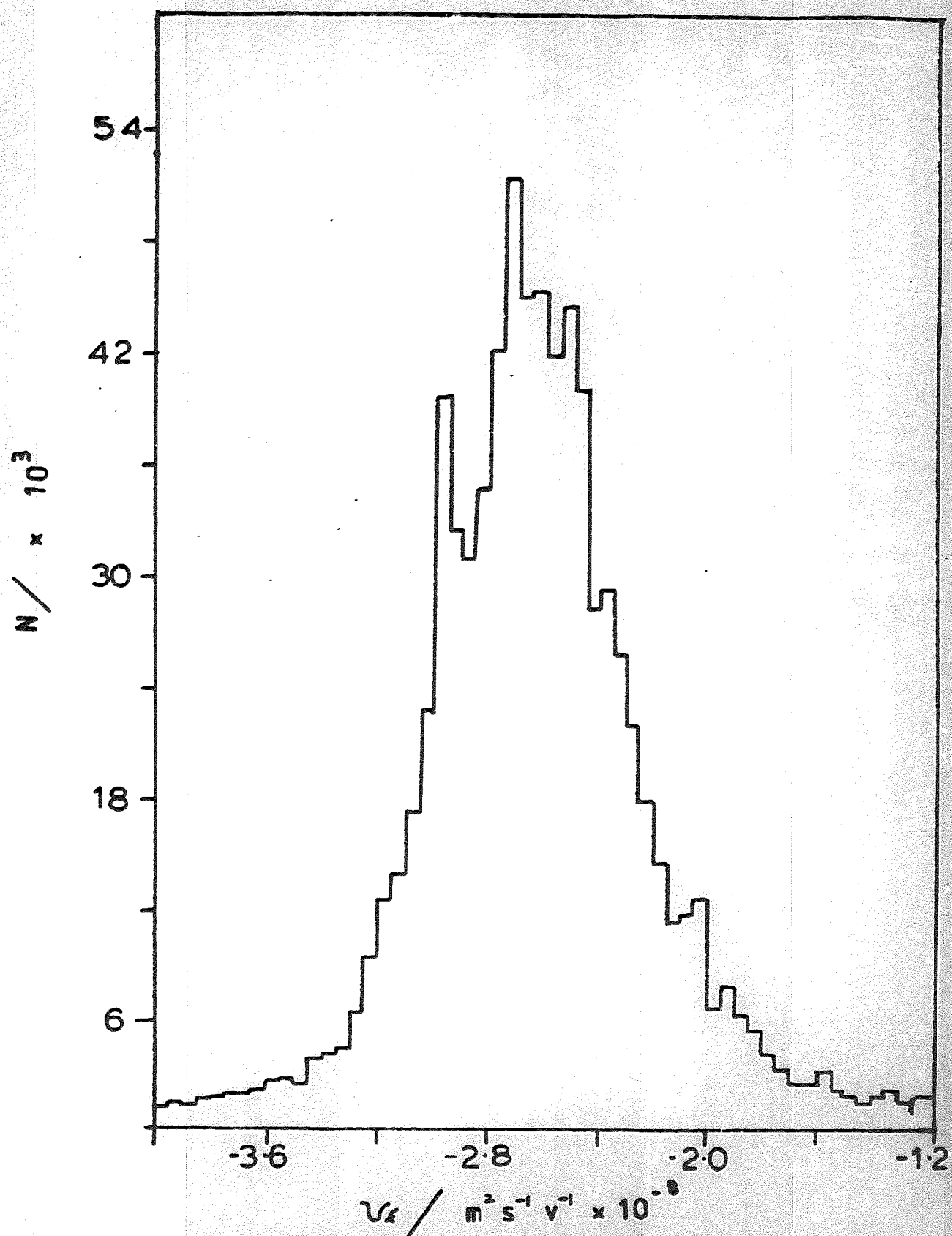
RD Rutile Pigment in Aluminium Sulphate solution (10^{-6} mol kg) @ pH 5.9



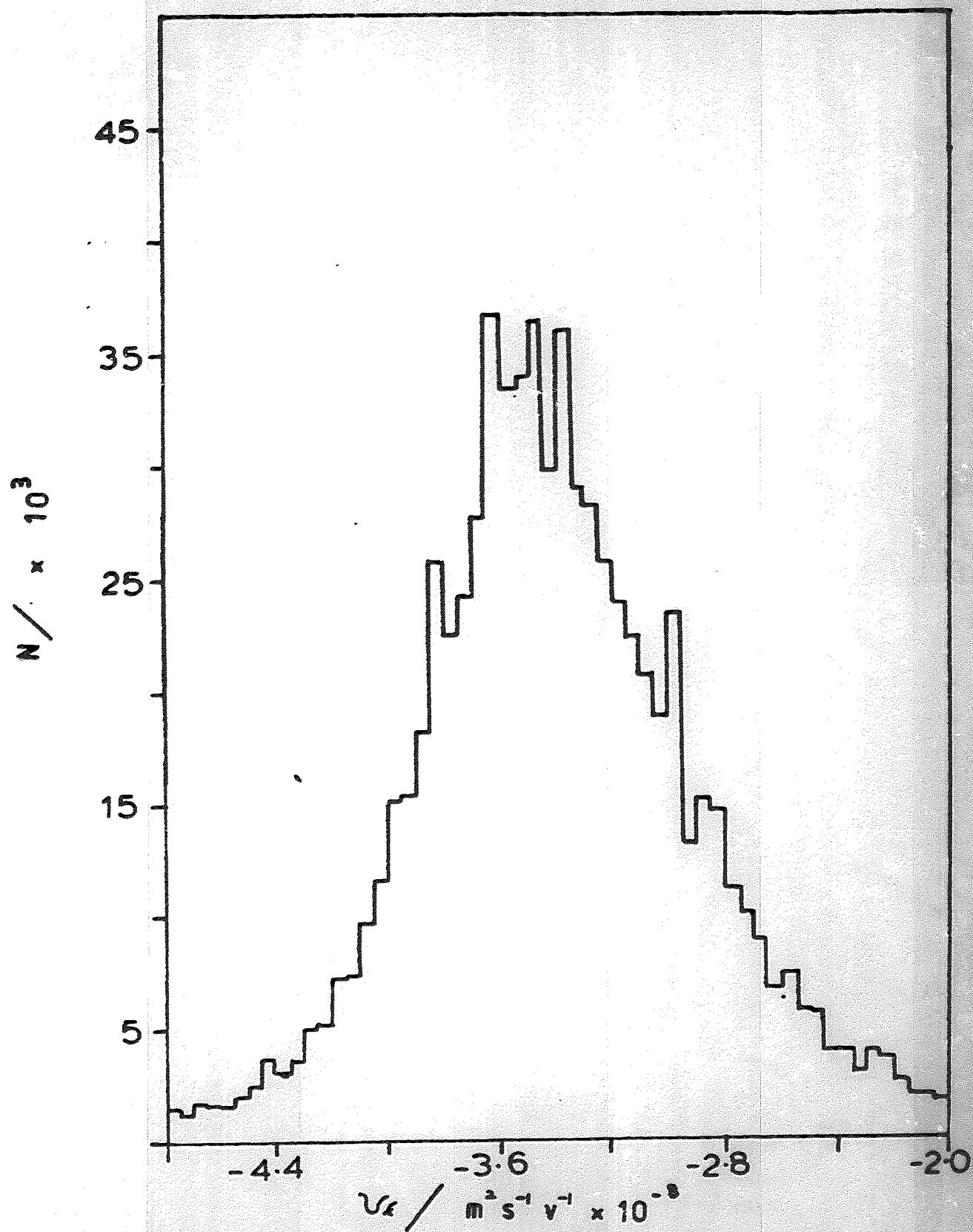
RD Rutile Pigment in Aluminium Sulphate solution (10^{-6} mol kg) @ pH 6.7



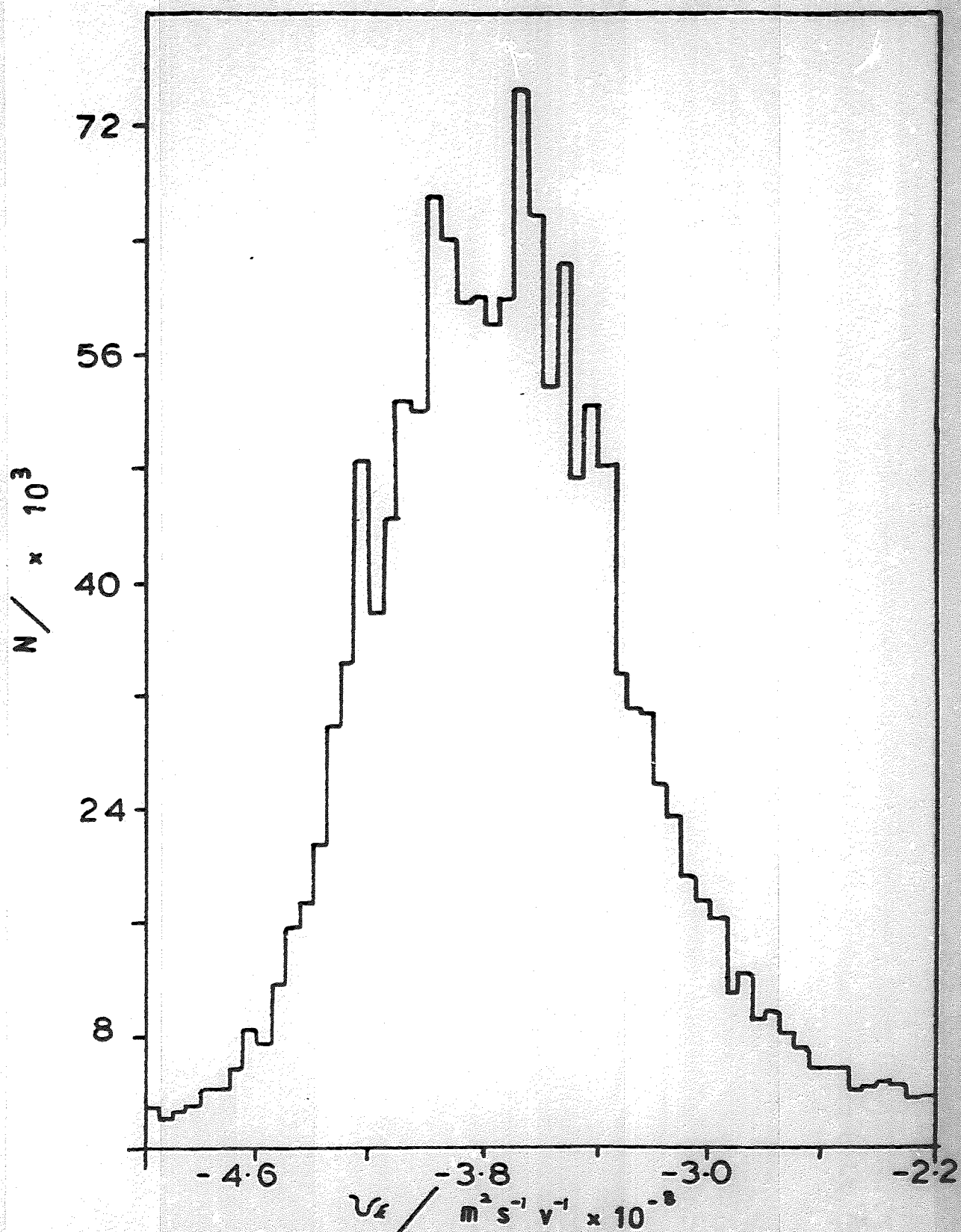
RD Rutile Pigment in Aluminium Sulphate solution (10^{-6} mol kg) @ pH 7.0



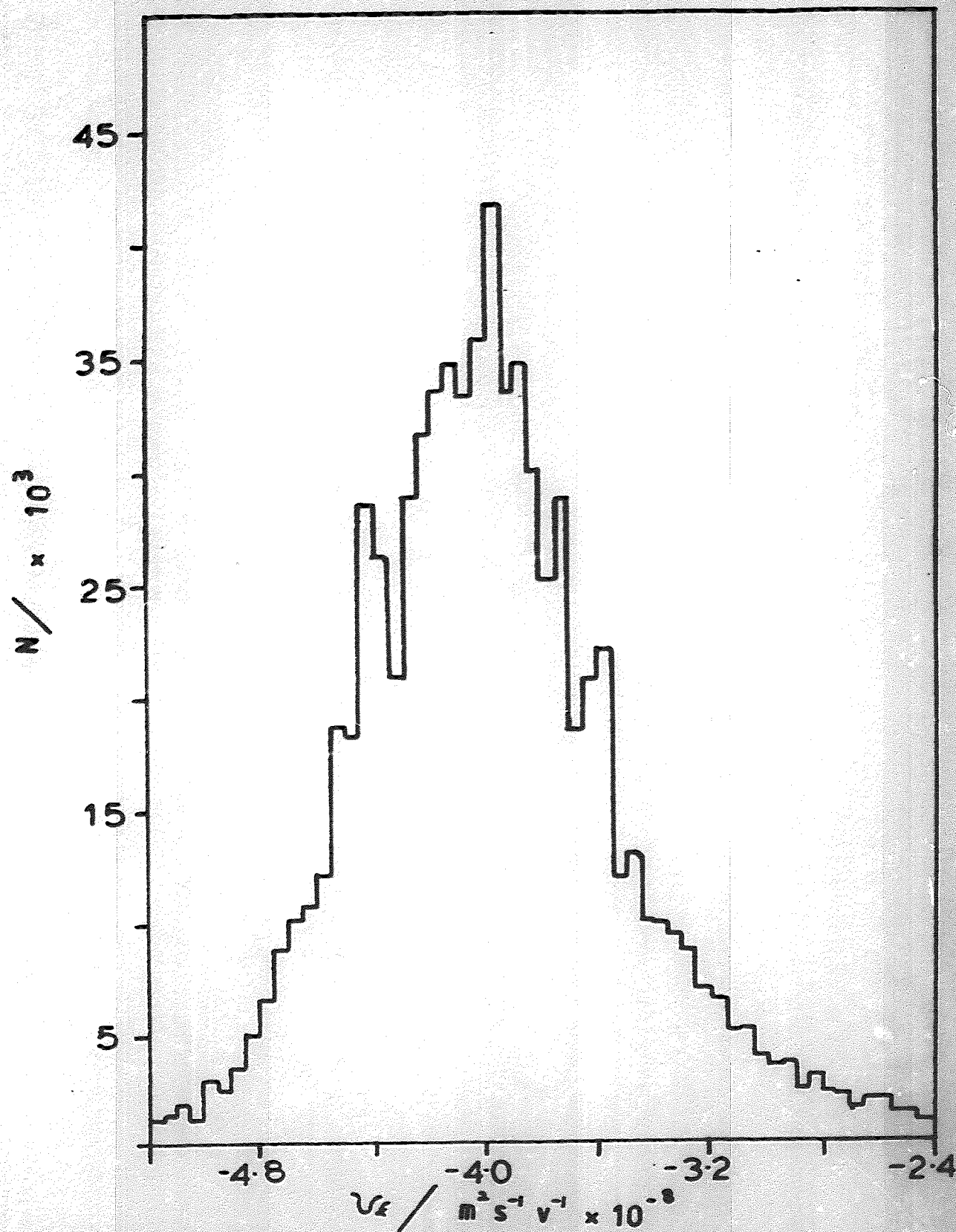
RD Rutile Pigment in Aluminium Sulphate solution (10^{-6} mol kg) @ pH 7.2



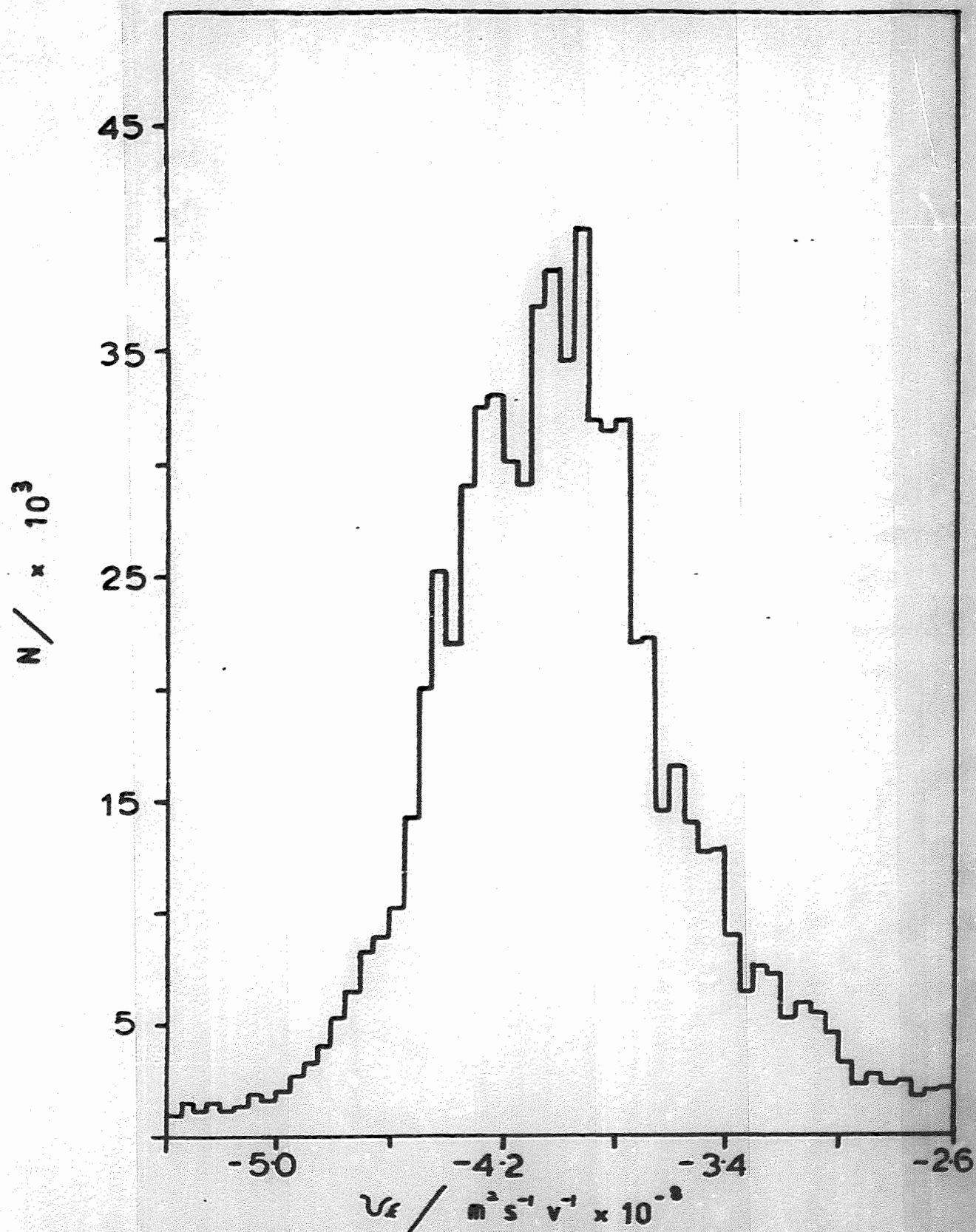
RD Rutile Pigment in Aluminium Sulphate solution (10^{-6} mol kg) @ pH 7.5



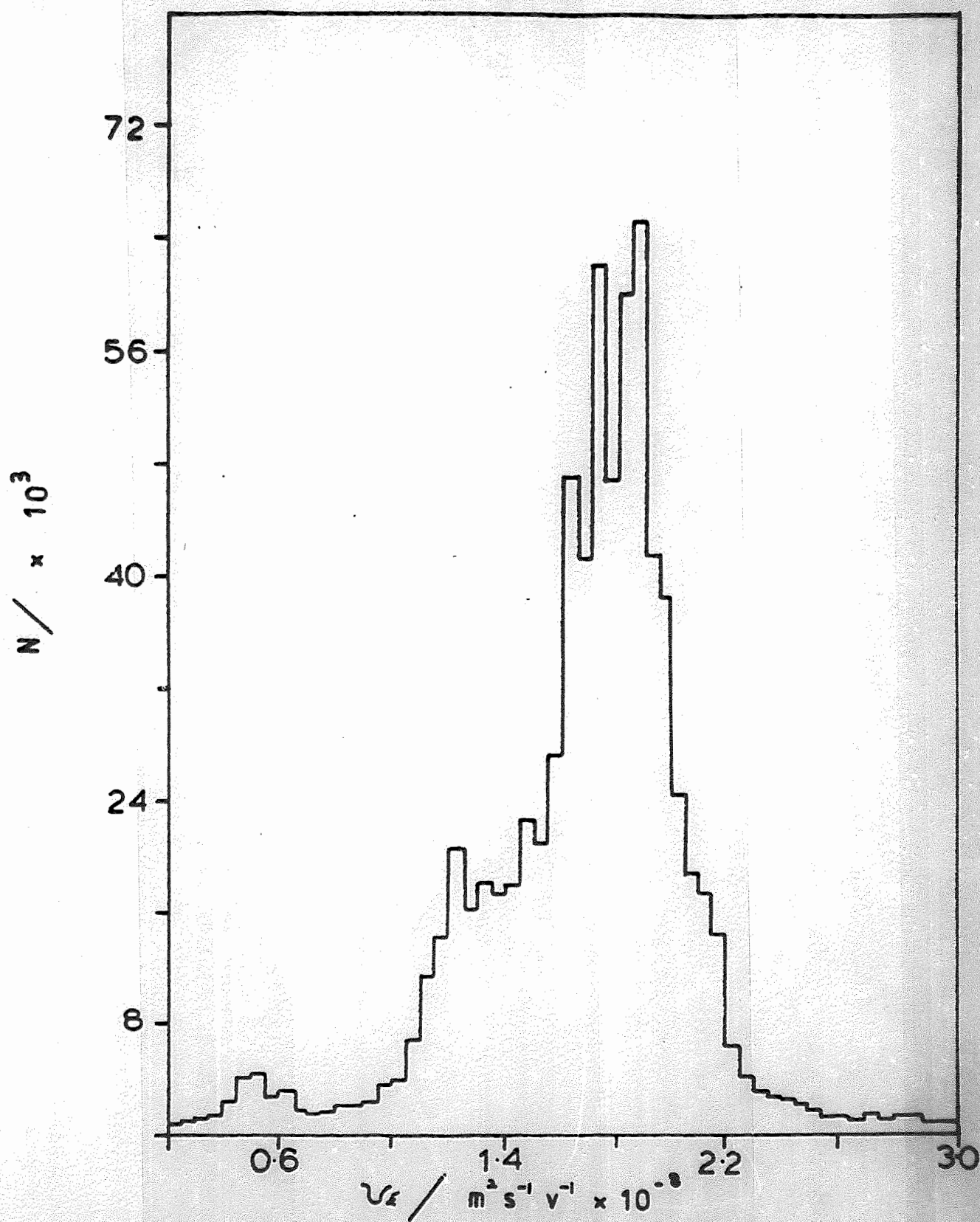
RD Rutile Pigment in Aluminium Sulphate solution (10^{-6} mol kg) @ pH 7.7



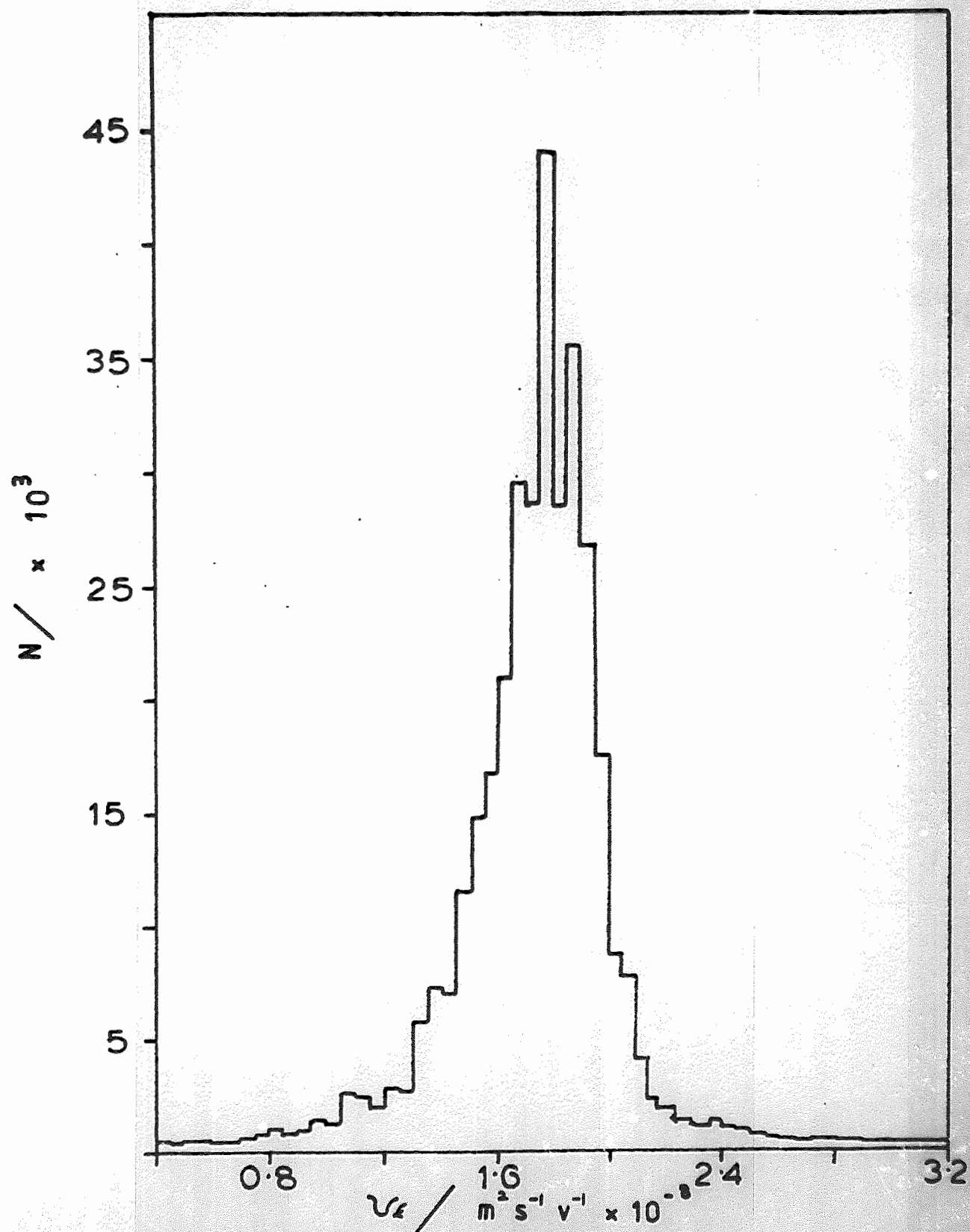
RD Rutile Pigment in Aluminium Sulphate solution (10^{-6} mol kg) @ pH 8.7



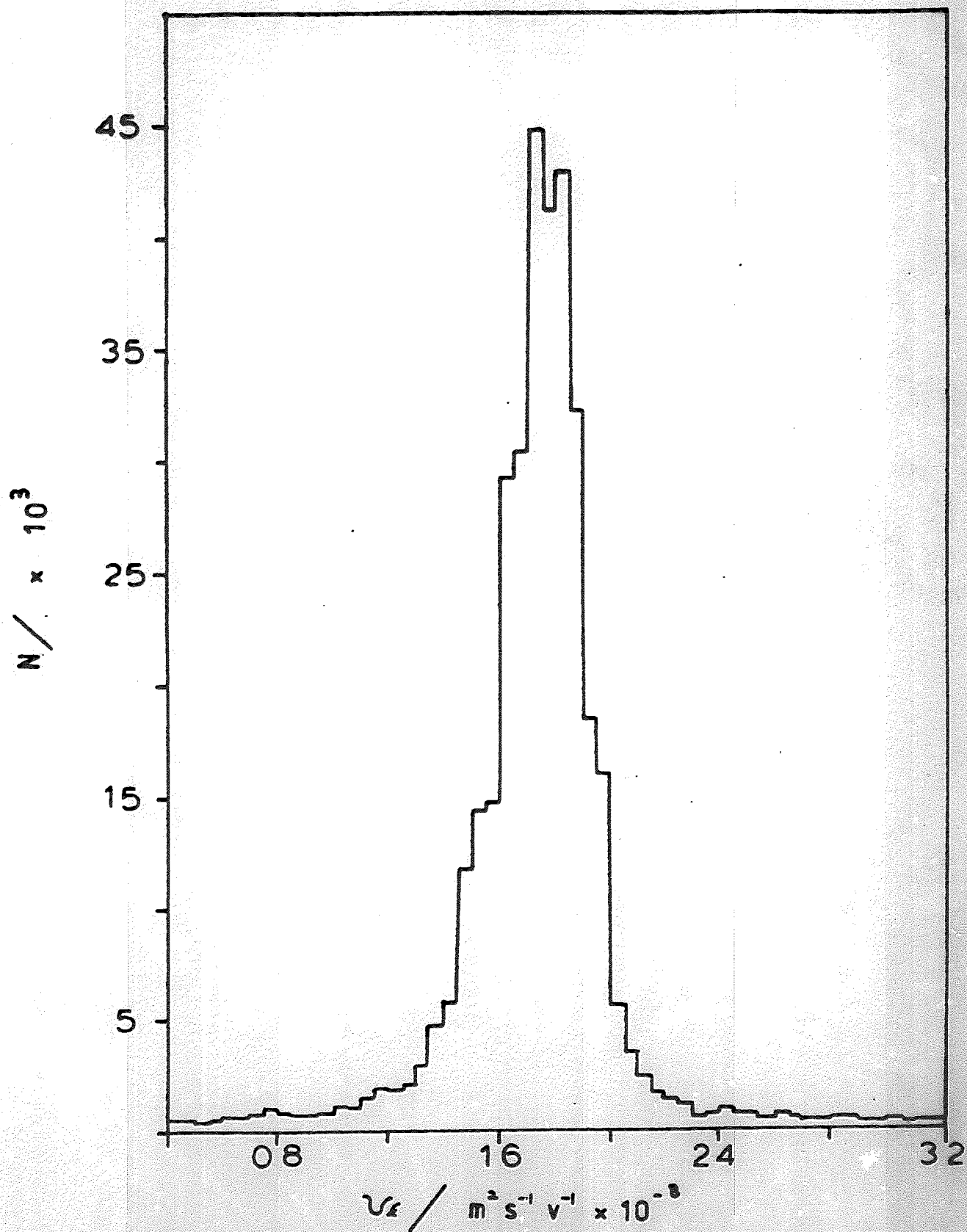
RD Rutile Pigment in Aluminium Sulphate solution (10^{-6} mol kg) @ pH 9.9



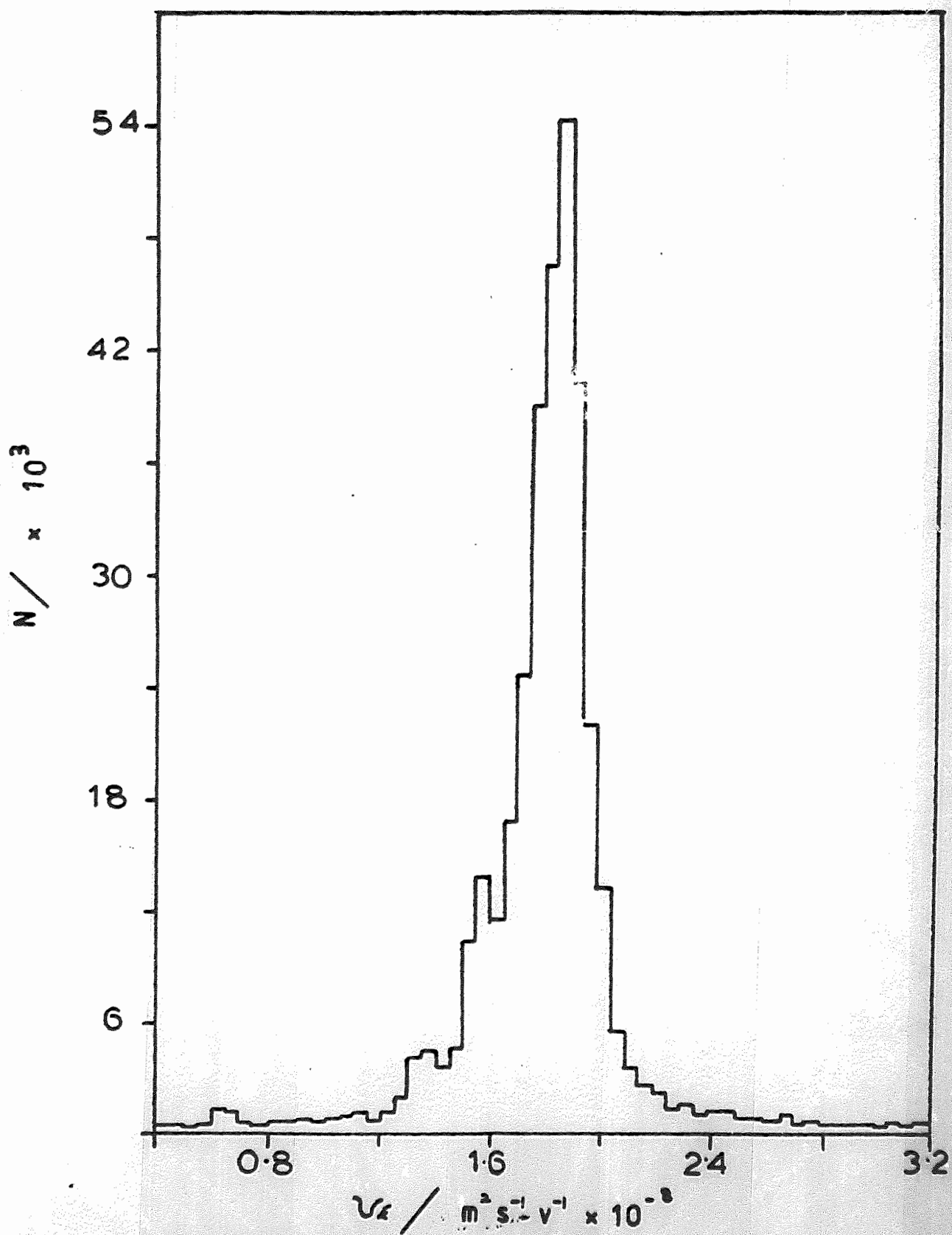
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 5.2



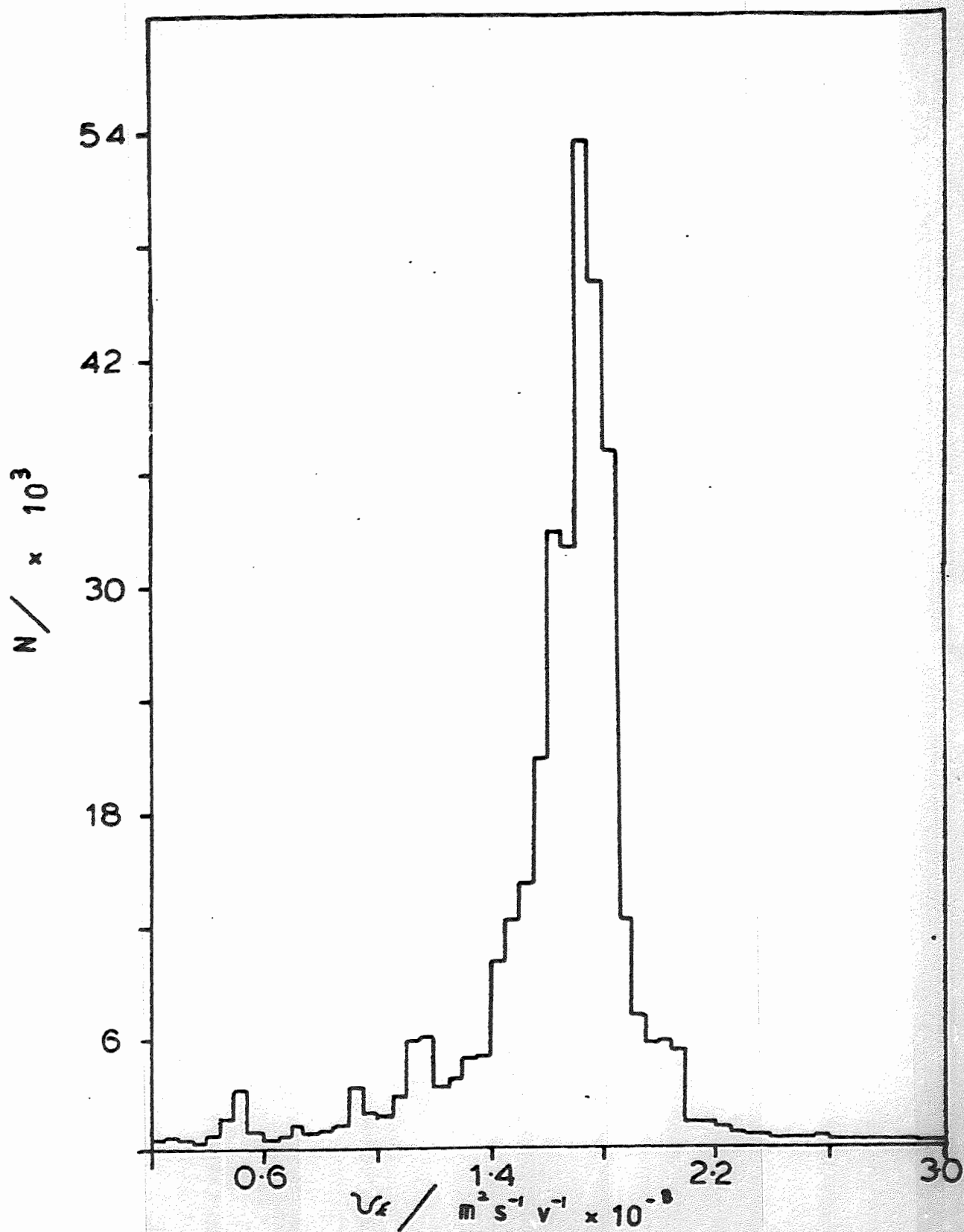
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 6.2



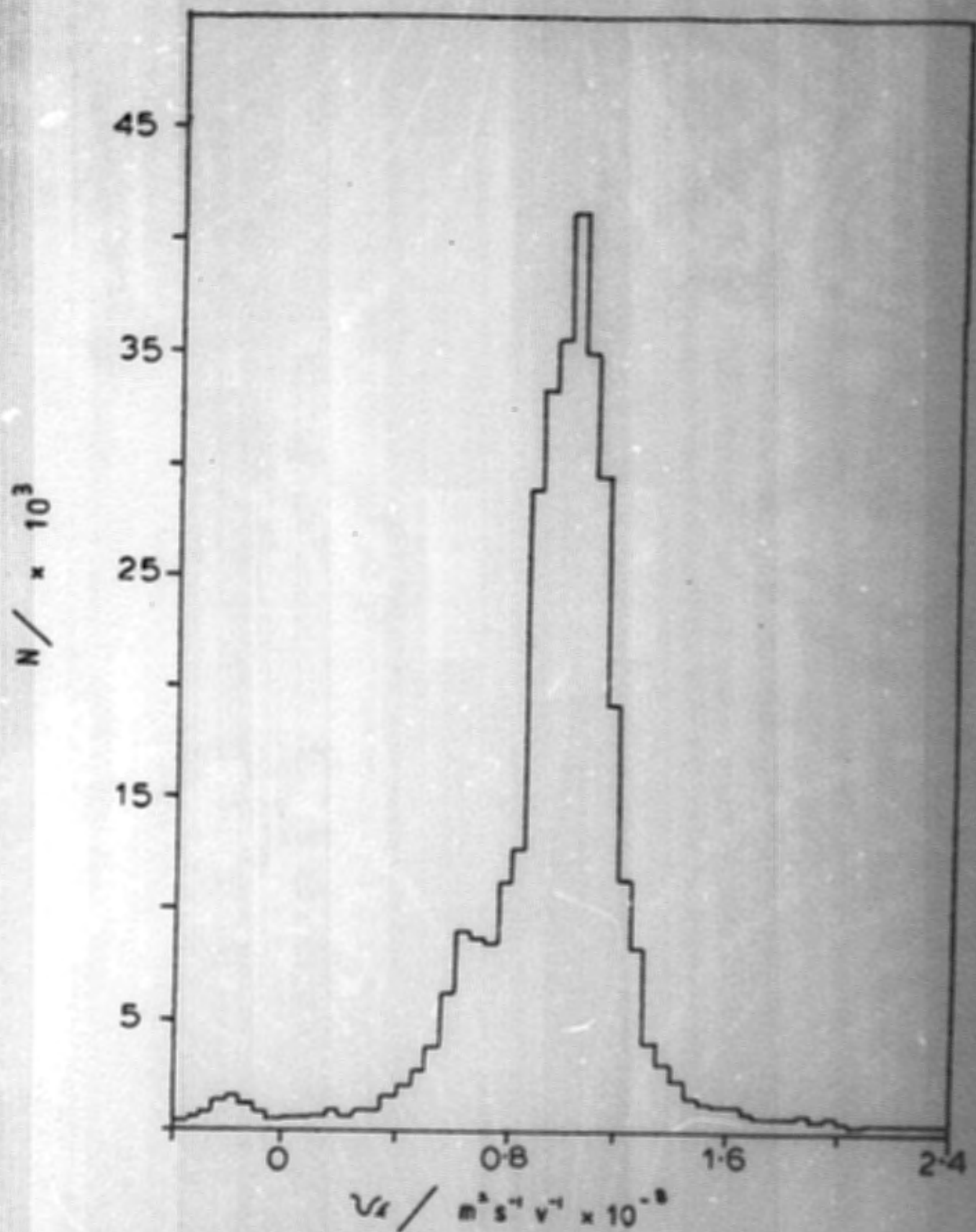
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 7.0



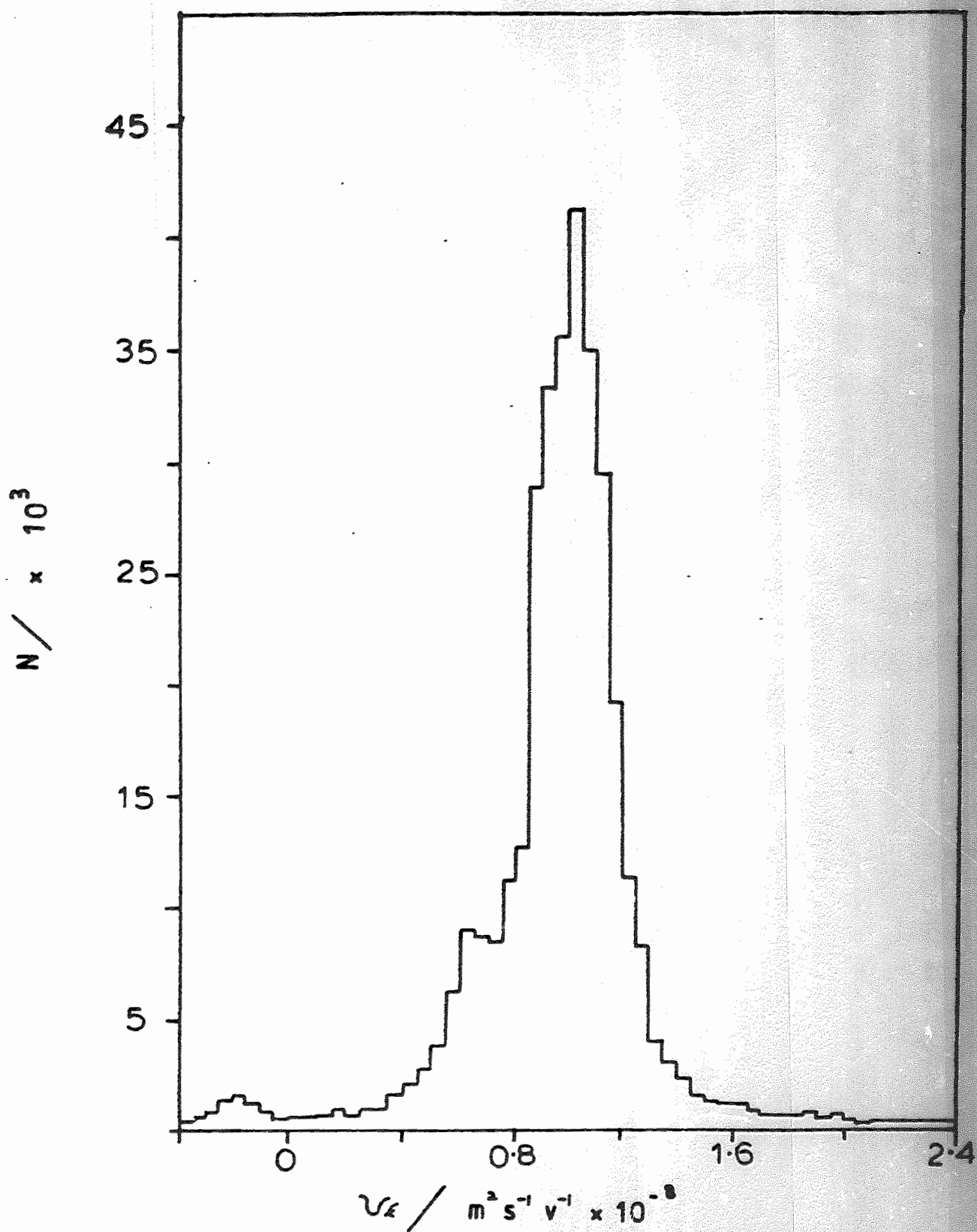
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 7.2



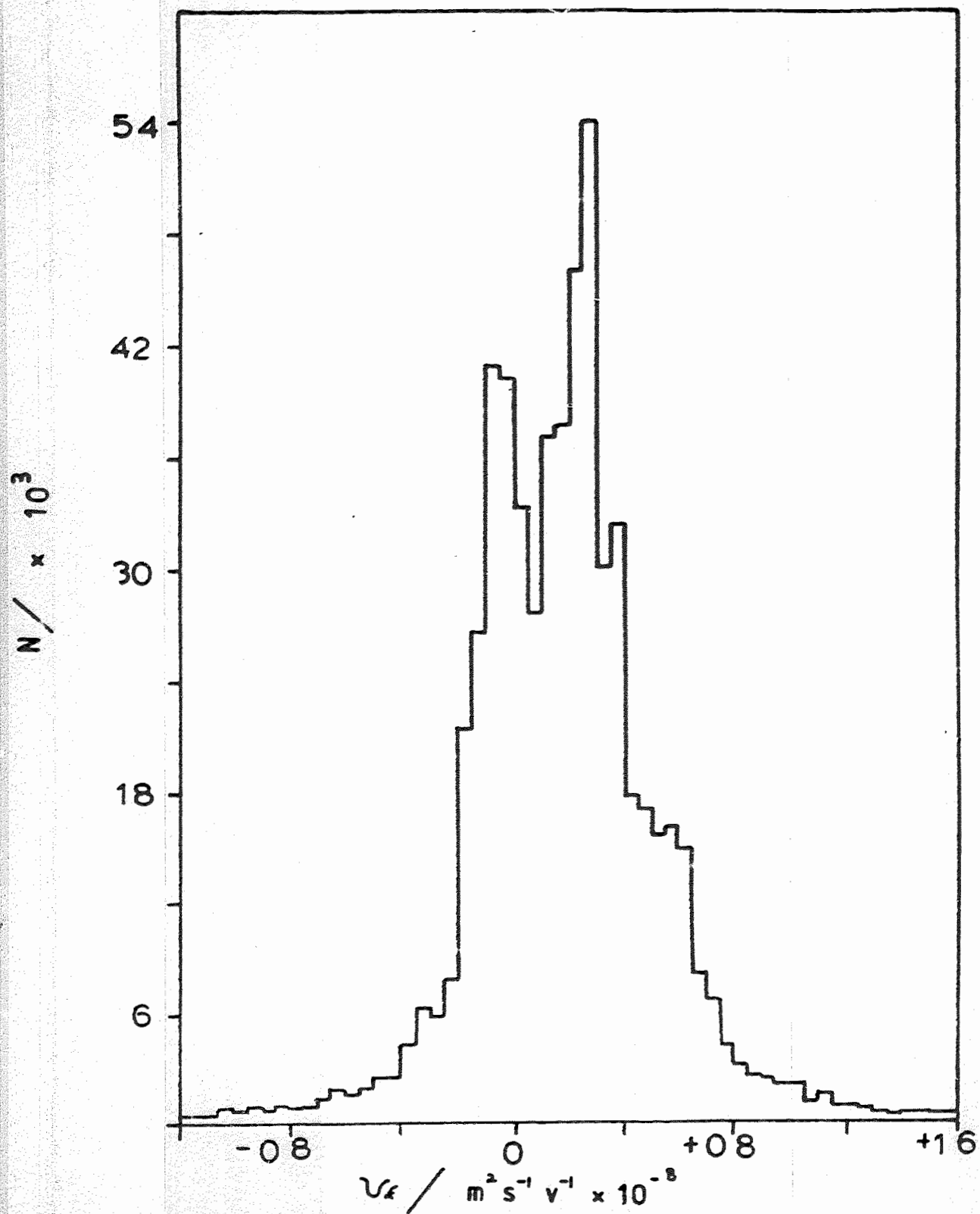
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 7.4



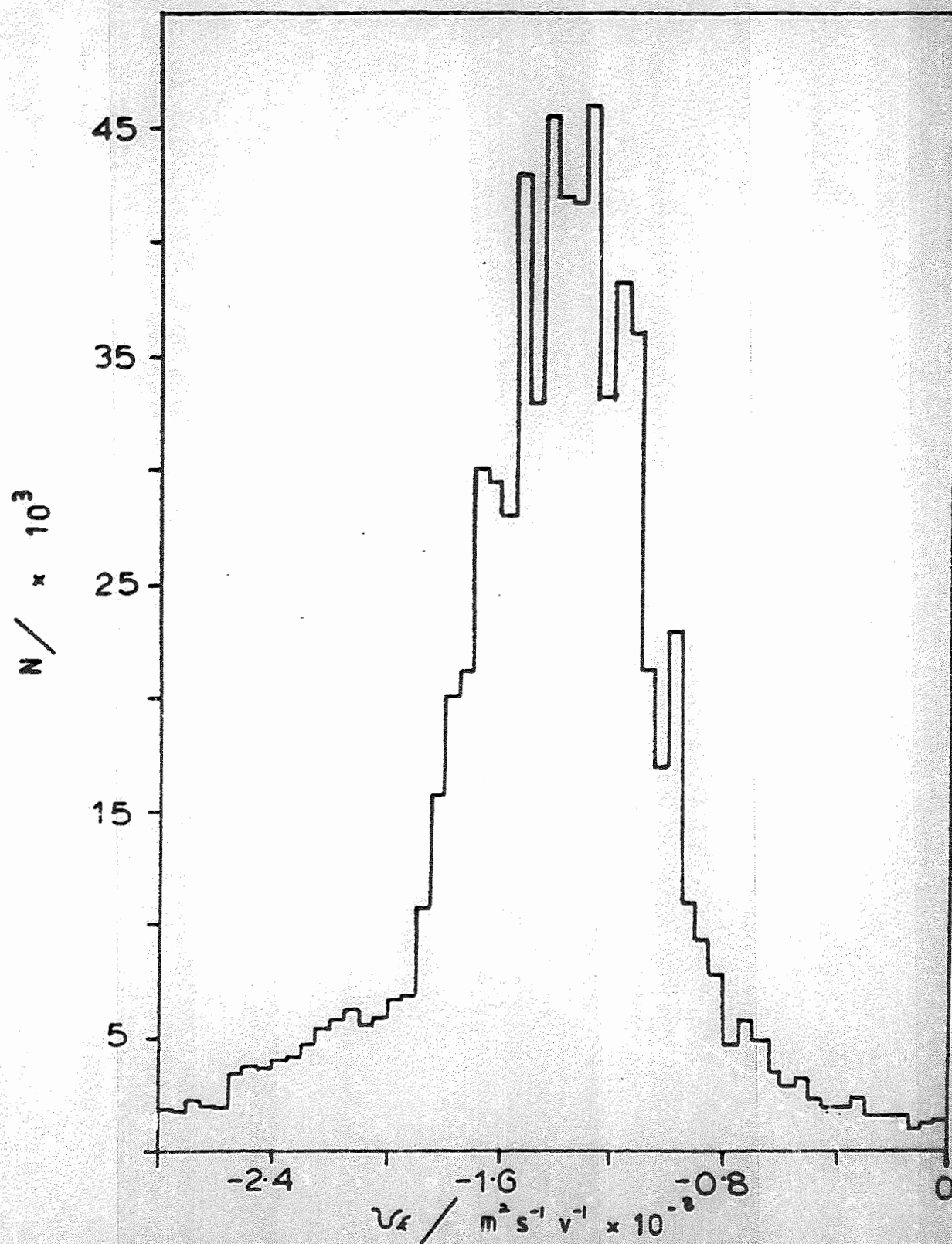
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 7.7



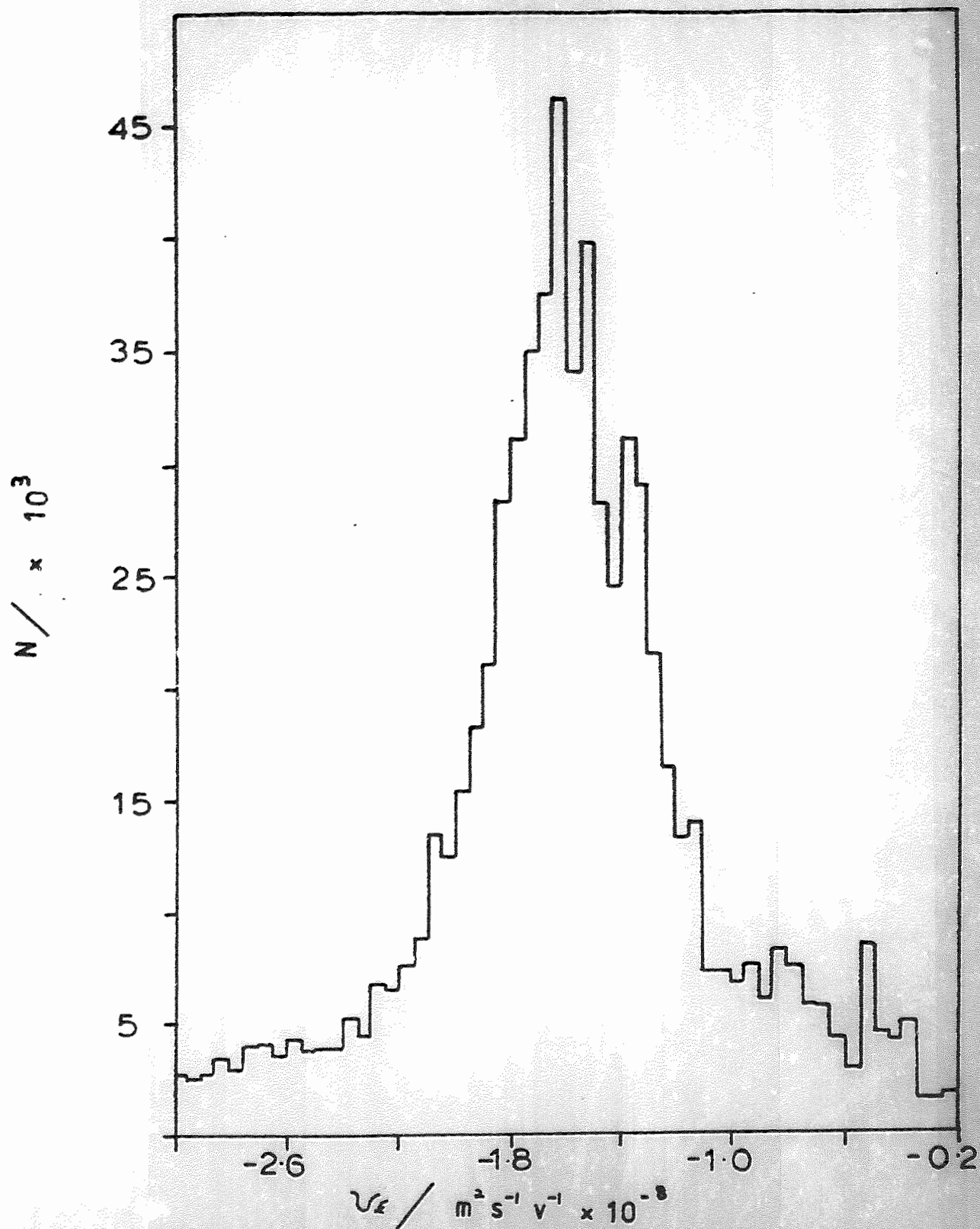
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 7.7



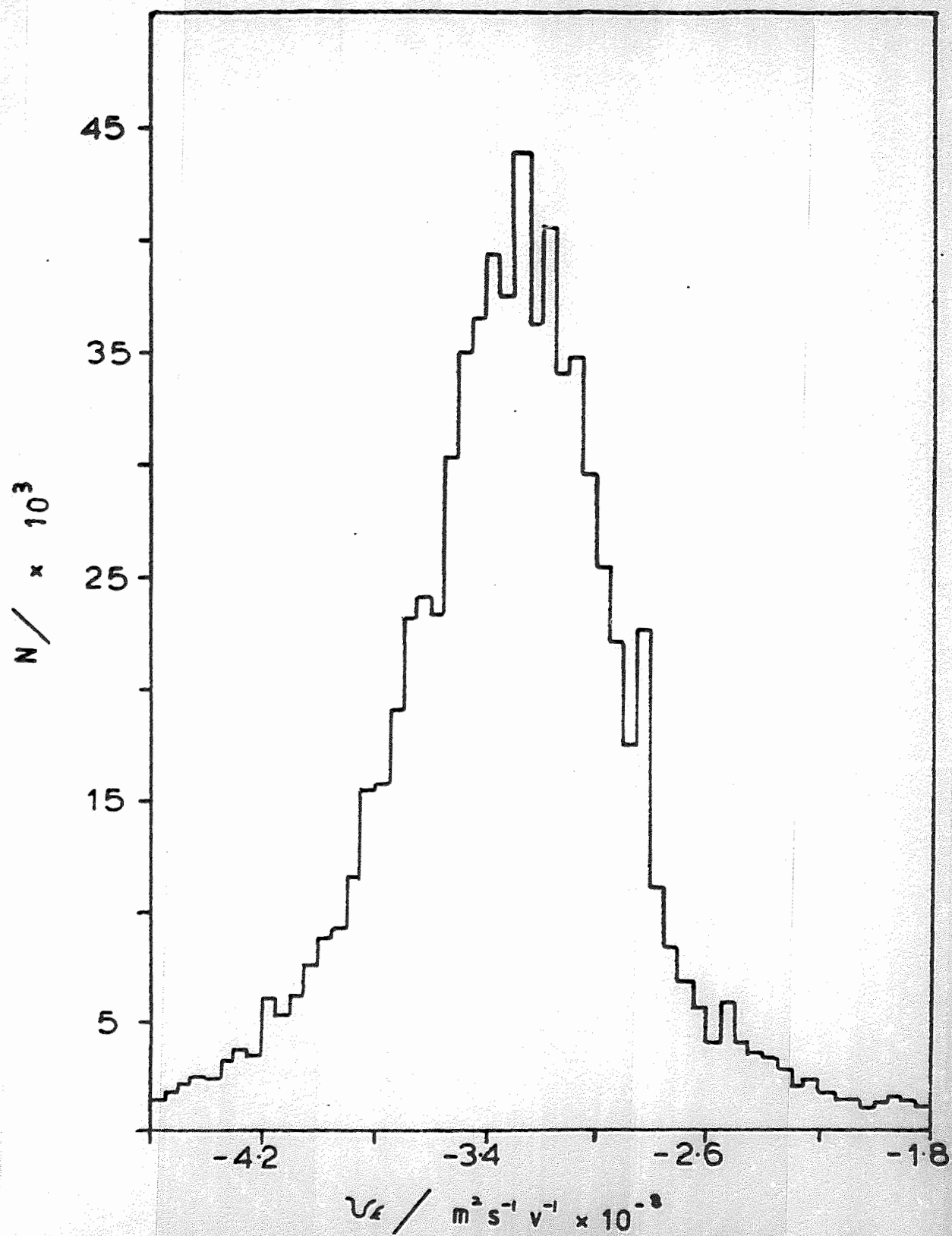
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 7.9



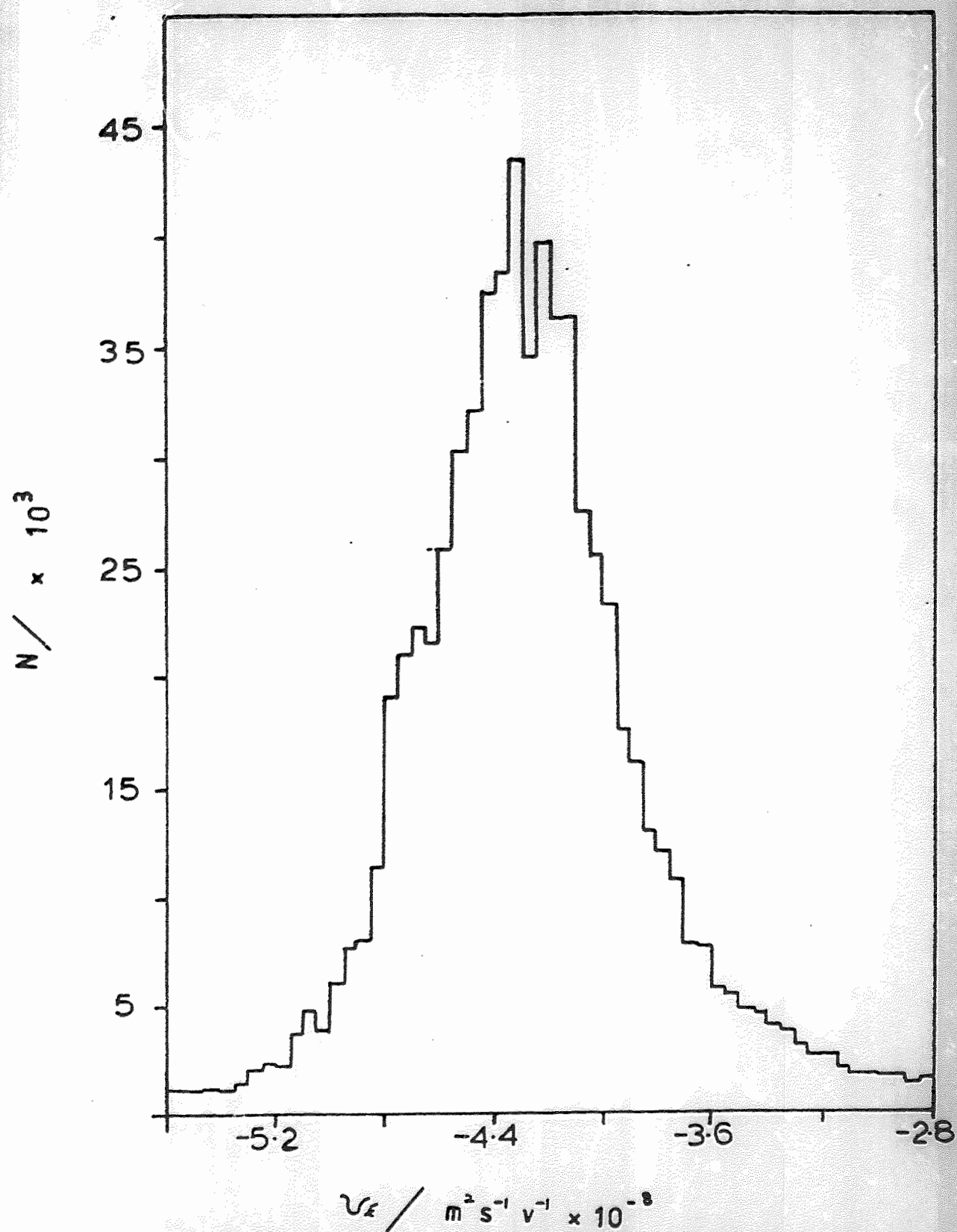
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 8.5



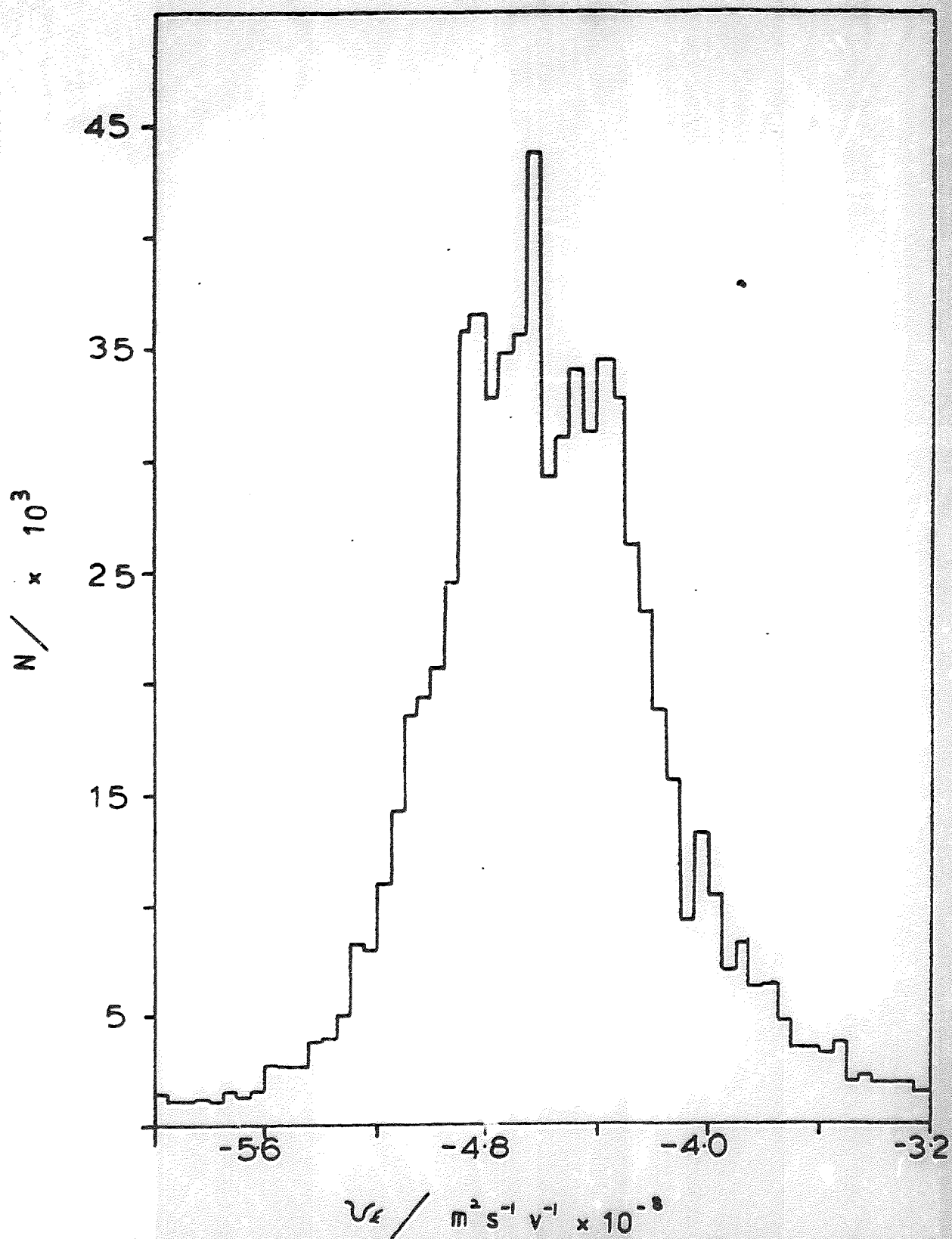
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 8.8



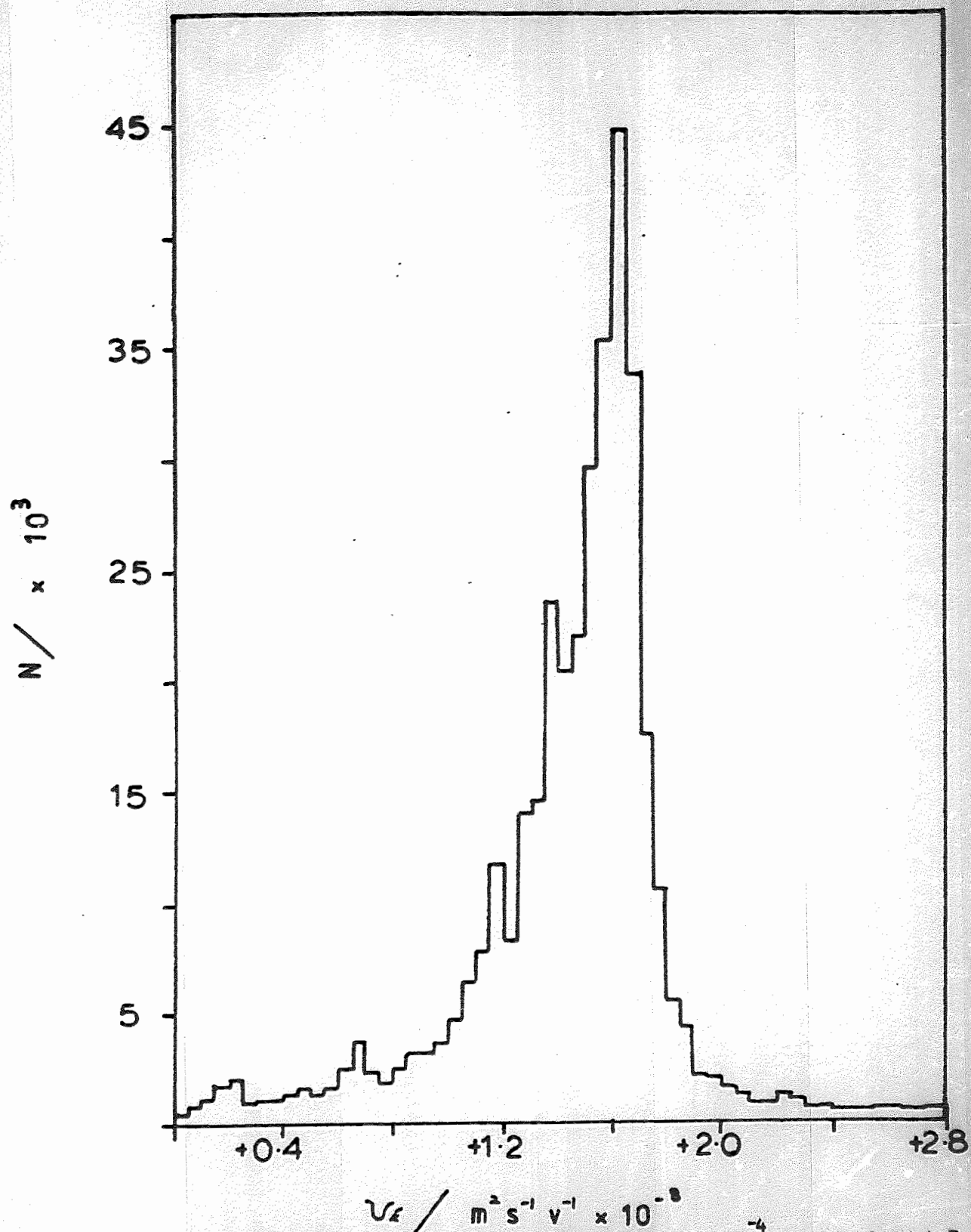
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 9.3



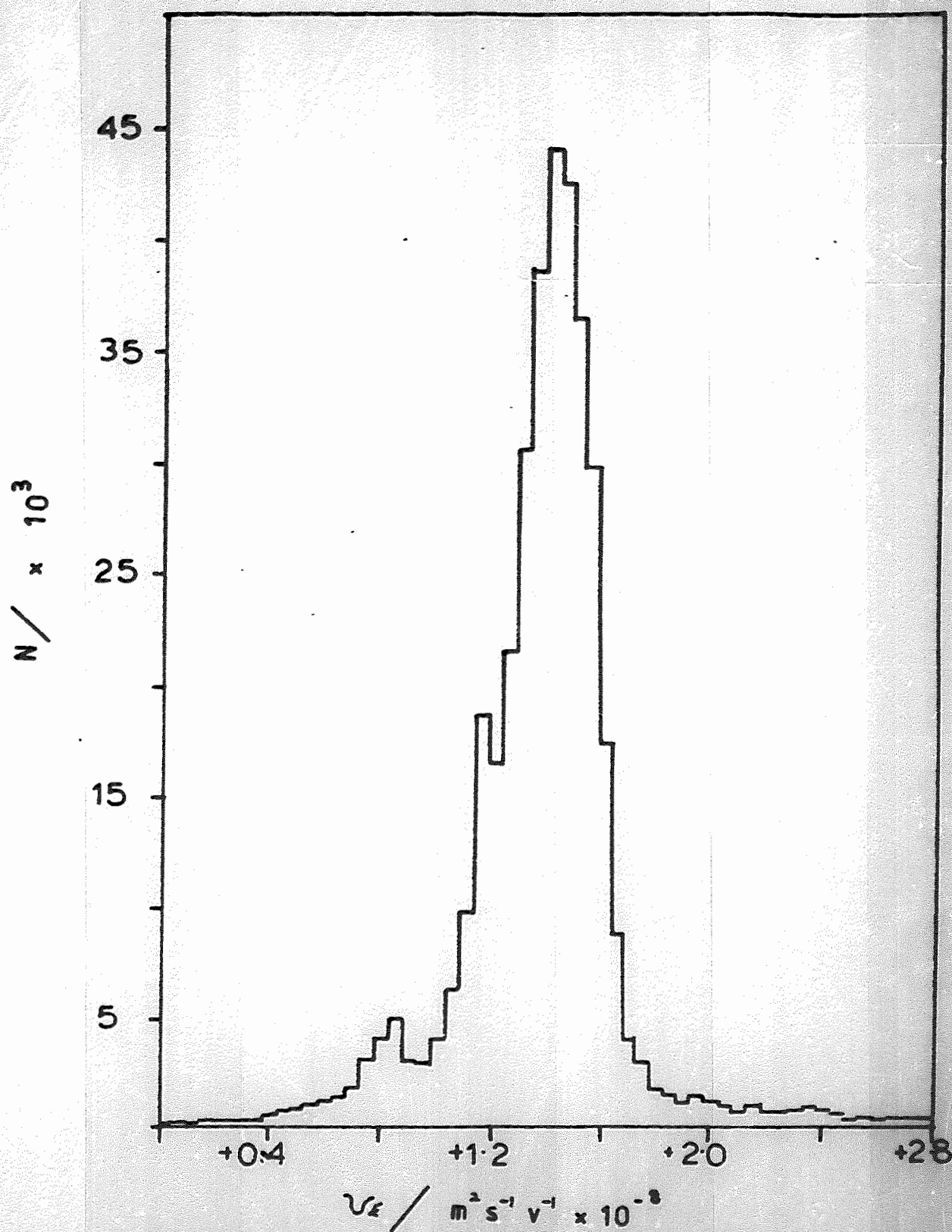
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 9.7



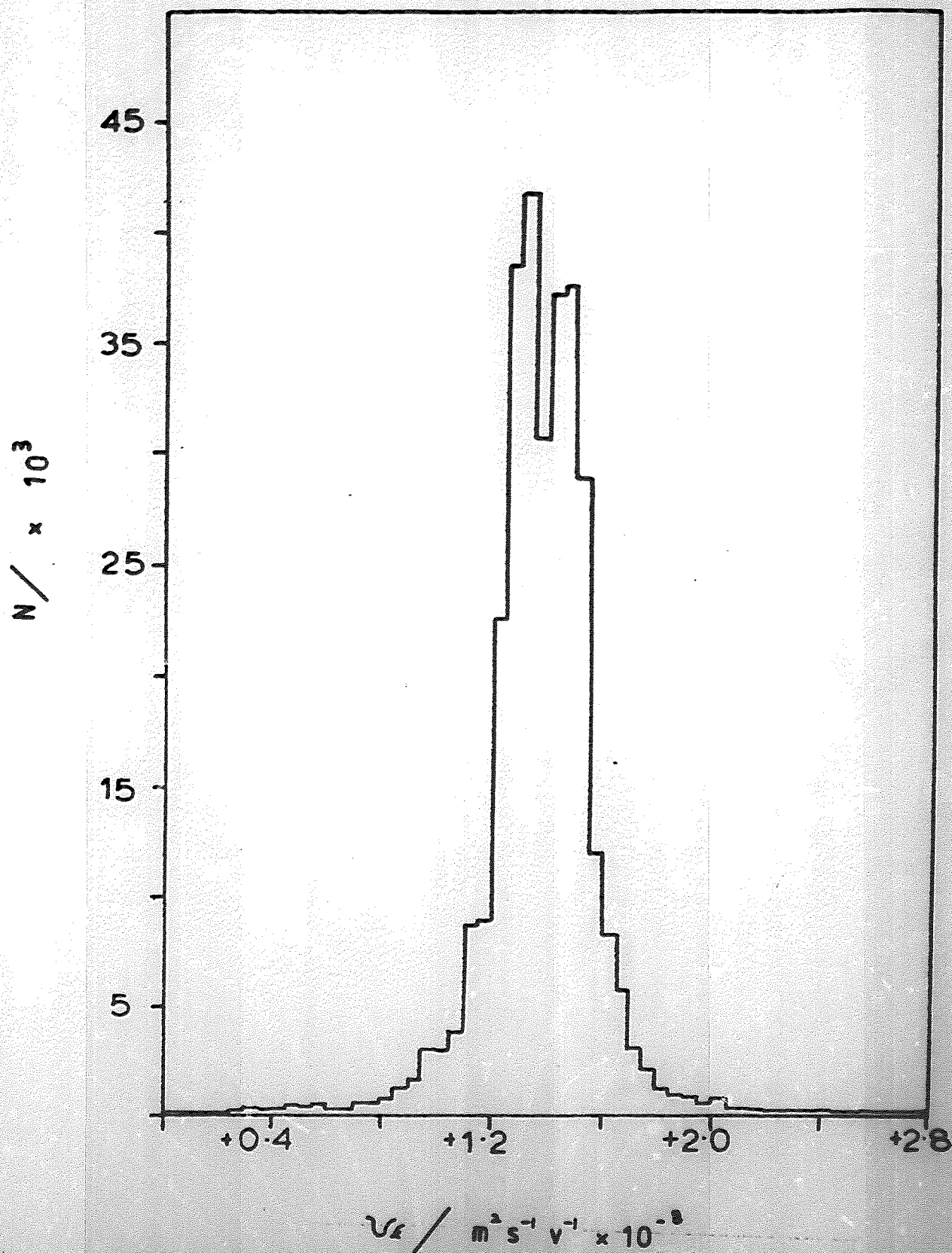
RD Rutile Pigment in Aluminium Sulphate solution (10^{-5} mol kg) @ pH 10.0



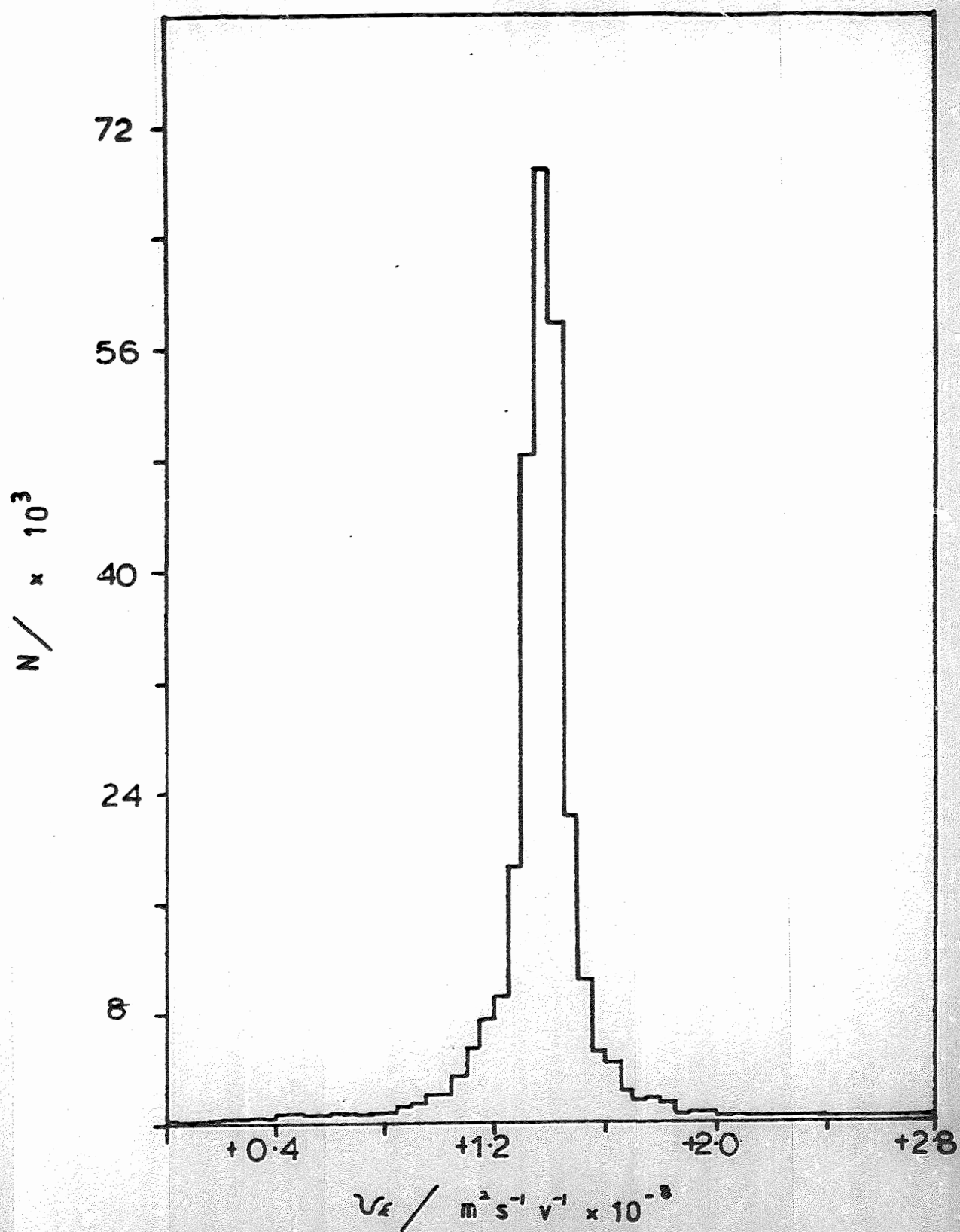
RD Rutile Pigment in Aluminium Sulphate solution (10^{-4} mol kg) @ pH 4.5



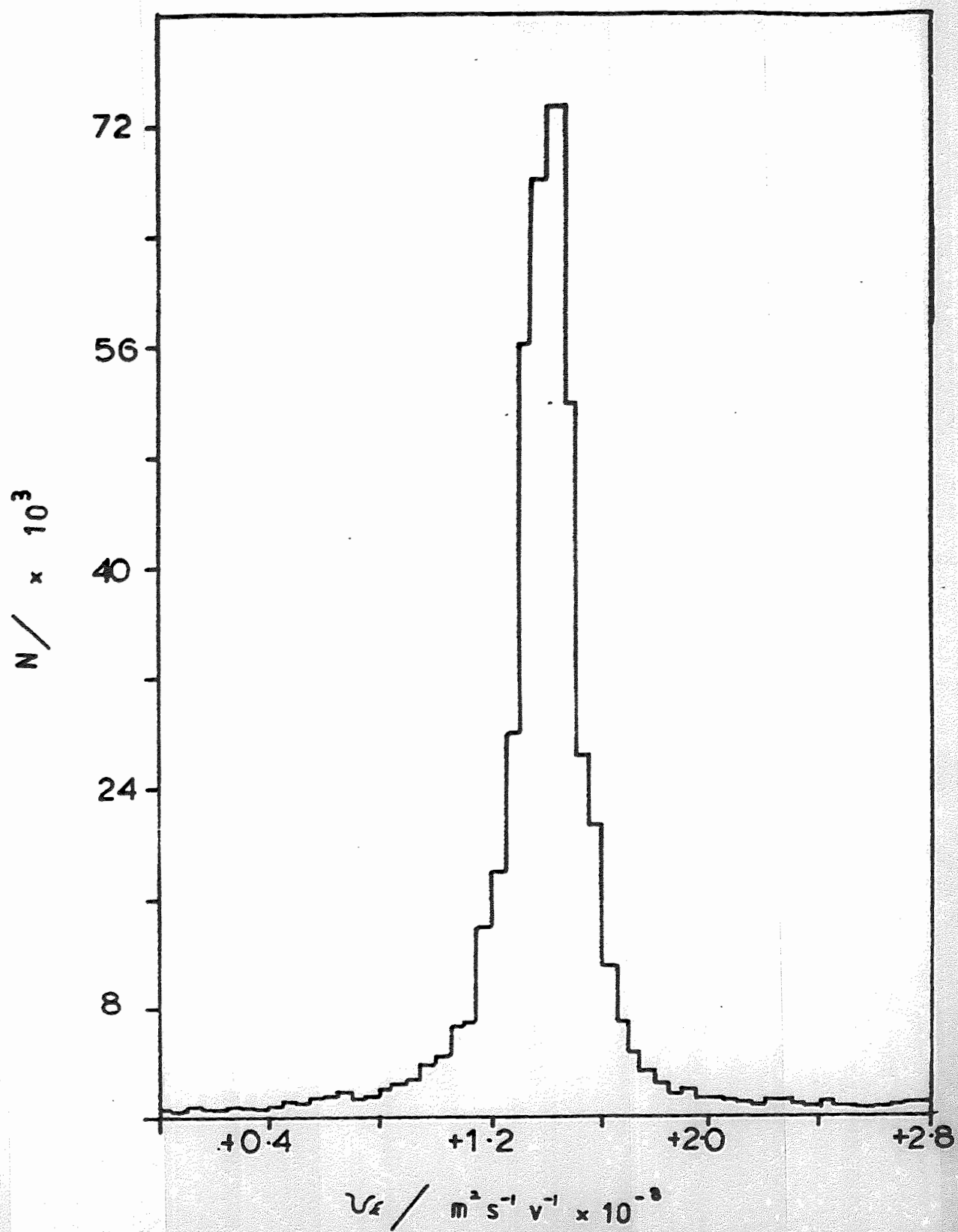
RD Rutile Pigment in Aluminium Sulphate solution (10^{-4} mol kg) @ pH 6.2



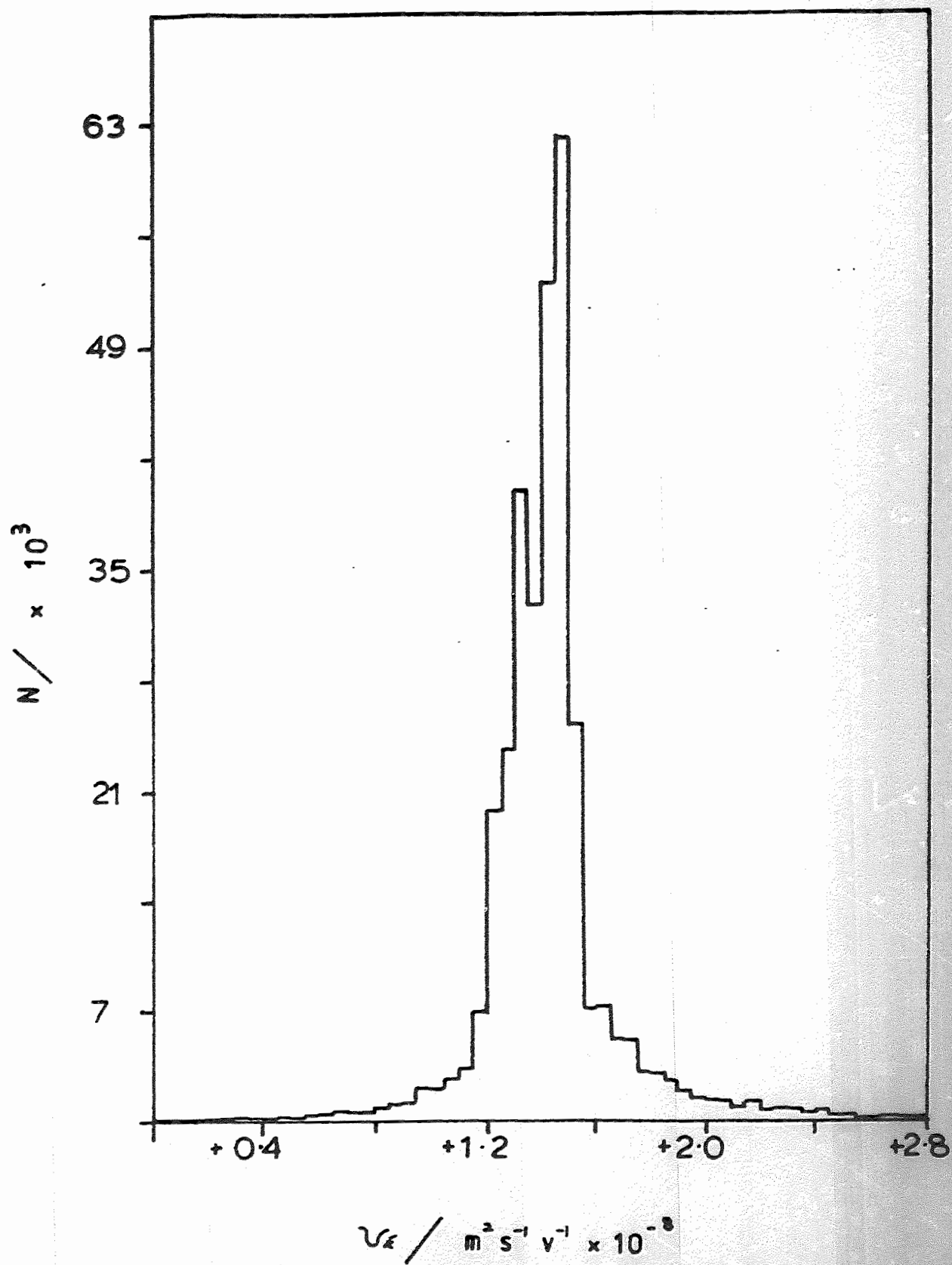
RD Rutile Pigment in Aluminium Sulphate solution (10^{-4} mol kg) @ pH 6.85



RD Rutile Pigment in Aluminium Sulphate solution (10^{-4} mol kg) @ pH 7.3



RD Rutile Pigment in Aluminium Sulphate solution (10^{-4} mol kg) @ pH 7.5



RD Rutile Pigment in Aluminium Sulphate solution (10^{-4} mol kg) @ pH 7.6