

# Properties Of Buffer Solutions Flinns

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an indispensable guide to buffers and to understanding the principles behind their use helps the user to avoid common errors in preparing buffers and their solutions a must for researchers in the biological sciences this valuable book takes the time to explain something often taken for granted buffers used in experiments it answers the

common questions such as which buffer should i choose what about the temperature effects what about ionic strength why is the buffer with the biggest temperature variation used in pcr it provides even the most experienced researchers with the means to understand the fundamental principles behind their preparation and use an indispensable guide essential for everyone using buffers

this book is intended as a practical manual for chemists biologists and others whose work requires the use of ph or metal ion buffers much information on buffers is scattered throughout the literature and it has been our endeavour to select data and instructions likely to be helpful in the choice of suitable buffer substances and for the preparation of appropriate solutions for details of ph measurement and the preparation of standard acid and alkali solutions the reader is referred to a companion volume a albert and e p serjeant s the determination of ionization constants 1971 although the aims of the book are essentially practical it also deals in some detail with those theoretical aspects considered most helpful to an understanding of buffer applications we have cast our net widely to include ph buffers for particular purposes and for measurements in non aqueous and mixed solvent systems in recent years there has been a significant expansion in the range of available buffers particularly for biological studies largely in consequence of the development of many zwitterionic buffers by good et al 1966 these are described in chapter 3

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