

THE CHEMISTRY OF PERMANENT HAIR DYES

There are a number of different types of hair dyes, but the most commonly used are permanent (oxidative) dyes. These dyes have a range of different components that react with each other to produce the desired end colour. In this graphic, we examine some of these chemicals, and how they form dyes.

1 PRIMARY INTERMEDIATES



p-PHENYLENEDIAMINE (PPD) & p-AMINOPHENOL

All permanent hair dyes contain a 'primary intermediate'; these are often p-diamines or p-aminophenols. They are oxidised by hydrogen peroxide to give reactive species which then go on to react with couplers to produce dyes. The exact structure of the reactive species produced by oxidation is still the subject of some debate.

2 OTHER COMPOUNDS



HYDROGEN PEROXIDE, AMMONIA, & ETHANOLAMINE

Hydrogen peroxide is the agent responsible for oxidation of primary intermediates, and also lightens the natural pigments present in the hair, the melanins eumelanin and pheomelanin. The dye-forming reactions are carried out at an alkaline pH, which is why ammonia is also required in the dye mixture. This raised pH causes the hair cuticle to swell, which in turn allows hydrogen peroxide and dye molecules to pass into the cortex. Ethanolamine can be used as an alternative, milder alkaline agent.

3 COUPLING AGENTS



RESORCINOL
BROWN YELLOW



m-AMINOPHENOL
LIGHT BROWN



2,6-DICHLORO-p-AMINOPHENOL
BROWN



p-TERPHENYLENEDIAMINE
DARK BROWN



1,4-DIAMINODIPHENYL ETHER
PURPLE BLUE



2,6-DIAMINOPYRIDINE
BLACK Violet



4-AMINO-2-NAPHTHOL
GREEN



1,4-DIAMINOBENZENE
DARK BLUE



m-TERPHTHYLDIAMINE
DARK BROWN



p-AMINOAZOBENZENE
DARK RED

Coupling agents, also referred to as colour couplers, are the other component in the dye mixture. Independently, they contribute little in the way of colour, but they can react with primary intermediates in the presence of an oxidising agent to produce dye molecules, some examples of which are shown below. Most dyes will contain a mix of different coupling agents, rather than just one. Primary intermediates can, in some cases, couple to themselves to produce colouration. In the end, multiple different dye products are formed from a single formulation of hair dye.



GREEN INDO DYE
INDOXYL & RESORCINOL



BROWN INDO DYE
INDOXYL & m-AMINOPHENOL



MAGENTA INDO DYE
INDOXYL & 2,6-DIAMINOPYRIDINE



Hair Dye Chemical Composition

Siddappa N.Byrareddy



Hair Dye Chemical Composition:

This book delves into Hair Dye Chemical Composition. Hair Dye Chemical Composition is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hair Dye Chemical Composition, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Hair Dye Chemical Composition
- Chapter 2: Essential Elements of Hair Dye Chemical Composition
- Chapter 3: Hair Dye Chemical Composition in Everyday Life
- Chapter 4: Hair Dye Chemical Composition in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Hair Dye Chemical Composition. This chapter will explore what Hair Dye Chemical Composition is, why Hair Dye Chemical Composition is vital, and how to effectively learn about Hair Dye Chemical Composition.
3. In chapter 2, the author will delve into the foundational concepts of Hair Dye Chemical Composition. The second chapter will elucidate the essential principles that need to be understood to grasp Hair Dye Chemical Composition in its entirety.
4. In chapter 3, this book will examine the practical applications of Hair Dye Chemical Composition in daily life. This chapter will showcase real-world examples of how Hair Dye Chemical Composition can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Hair Dye Chemical Composition in specific contexts. The fourth chapter will explore how Hair Dye Chemical Composition is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Hair Dye Chemical Composition. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Hair Dye Chemical Composition.

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