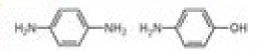
THE CHEMISTRY OF PERMANENT HAIR DYES

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 dives.

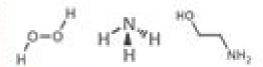




PARAPHENYLENETURANNE (PYC) & PILEA AMPAGOPHENO

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

GOHER COMPOUNDS



INTERCEDIN PERCHIDE AND/ONA, & ETHANOLAUNA

Hydrogen paroxide is the agent responsible for oxidation. of primary intermediates, and also lightens the natural pigments present in the hair, the melanins aumelanin and pheomelanin. The dye forming reactions are carried out at an alkaline gH, which is why ammonia is also required in the dye mixture. This raised gH causes the hair cuticle. to seed, which in turn allows hydropen perceide and due molecules to pass into the cortex. Ethanotamine can be used as an alternative, milder alkaline agent.

COUPLING AGENTS







PROPERTY AND DESCRIPTION













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 due molecules, some examples of which are shown below. Most dues 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 dive products are formed from a single formulation of hair dys.

Hair Dye Chemical Composition

S Baum

Hair Dye Chemical Composition:

Hair Dye Chemical Composition Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Hair Dye Chemical Composition**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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