



HAIR DYES



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COSMOLIFE is a leading manufacturer of semi-permanent and permanent hair dyes.

We are specialized in development and production of high purity dyes and dye precursors which are in compliance with global regulations.

With the support of our internal R&D and Analytical department, we can also match our customers' specific requirements.

The COSMECOL range is including a large number of dyes but it is not limited. We are able to produce any additional product upon request.



NATURAL DYES

Cosmolife is offering natural hair dyes:




- COSMECOL Henna ND 80, powder obtained from dried and crushed leaves of lawsonia inermis. It contains lawson, a natural pigment, achieving permanent **copper red shades**,
- COSMECOL Indigo ND 60: powder obtained from indigo leaf containing a natural blue pigment (indigotin),
- COSMECOL Cassia ND 20: powder obtained from cassia leaf containing natural golden dye.

| REFERENCE | PLANT | INCI NAME | CAS NR |
|-----------------------|---------------------|-------------------------------|------------|
| COSMECOL Henna ND 80 | Lawsonia Inermis | HENNA | 84988-66-9 |
| COSMECOL Indigo ND 60 | Indigofera Tintoria | Indigofera Tintoria Leaf | 84775-63-3 |
| COSMECOL Cassia ND 20 | Cassia Auriculata | Cassia Auriculata Leaf Powder | 97593-53-8 |

DISPERSE DYES

Disperse dyes are achieving semi-permanent formulations with good substantivity to hair, resistant to fading and lasting several washes.

They can be combined with other semi-permanent dyes.

| | REFERENCE | INCI NAME | CAS NR |
|---|----------------------|-------------------|------------|
|  | COSMECOL Red D 17 | Disperse Red 17 | 3179-89-3 |
|  | COSMECOL Violet D 01 | Disperse Violet 1 | 128-95-0 |
|  | COSMECOL Black D 09 | Disperse Black 9 | 20721-50-0 |

ACID DYES

Acid dyes are anionic molecules that have low natural affinity to hair fibers.

Therefore, they are not providing long lasting effect in normal conditions. So they are considered as **temporary dyes**.

However, when they are properly formulated, they can have a **better affinity** to hair and provide a lasting of several washes.

Acid dyes are providing a «**build up**» effect: the dying effect is **increased** after several applications on hair.



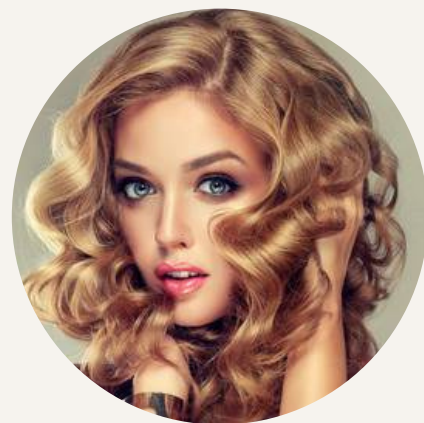
| | REFERENCE | INCI NAME | COLOR INDEX | FDA |
|---|------------------------|----------------|-------------|-----------------|
|  | COSMECOL Yellow A 01 | Acid Yellow 1 | 10316 | Ext DC Yellow 7 |
|  | COSMECOL Yellow A 03 | Acid Yellow 3 | 47005 | DC Yellow 10 |
|  | COSMECOL Yellow A 23 | Acid Yellow 23 | 19140 | FDC Yellow 5 |
|  | COSMECOL Orange A 07 | Acid Orange 7 | 15510 | DC Orange 4 |
|  | COSMECOL Red A 18 | Acid Red 18 | 16255 | ----- |
|  | COSMECOL Red A 33 | Acid Red 33 | 17200 | DC Red 33 |
|  | COSMECOL Red A 40 | Allura Red | 16035 | FDC Red 40 |
|  | COSMECOL Red A 52 | Acid Red 52 | 45100 | ----- |
|  | COSMECOL Red A 92 | Acid Red 92 | 45410 | DC Red 28 |
|  | COSMECOL Violet A 43 | Acid Violet 43 | 60730 | Ext DC Violet 2 |
|  | COSMECOL Violet A 43-B | Acid Violet 43 | 60730 | Ext DC Violet 2 |
|  | COSMECOL Blue A 09 | Acid Blue 9 | 42090 | FDC Blue 1 |
|  | COSMECOL Green A 25 | Acid Green 25 | 61570 | DC Green 5 |
|  | COSMECOL Black A 01 | Acid Black 1 | 20470 | ----- |









CATIONIC DYES

Cationic dyes have a natural affinity to hair and are then able to achieve semi-permanent effect.

Part of them are selected to get natural semi-permanent shades: so when combining *COSMECOL Brown B 16 & B 17, Red B 76, Yellow B 57 and Blue B 99* final shades are natural and stable after several shampoos. There is no selectivity.

Others are providing in addition intensive highlights but with higher selectivity.



| | REFERENCE | INCI NAME | CAS NR |
|---|-------------------------|-----------------|------------|
|  | COSMECOL Brown B 16 | Basic Brown 16 | 26381-41-9 |
|  | COSMECOL Brown B 17 | Basic Brown 17 | 68391-32-2 |
|  | COSMECOL Red B 51 | Basic Red 51 | 77061-58-6 |
|  | COSMECOL Red B 76 | Basic Red 76 | 68391-30-0 |
|  | COSMECOL Orange B 31 | Basic Orange 31 | 97404-02-9 |
|  | COSMECOL Yellow B 57 | Basic Yellow 57 | 68391-31-1 |
|  | COSMECOL Yellow B 87 | Basic Yellow 87 | 68259-00-7 |
|  | COSMECOL Ebony B 01 | Black Mix | ----- |
|  | COSMECOL Black Mix B 02 | Black Mix | ----- |
|  | COSMECOL Blue B 99 | Basic Blue 99 | 68123-13-7 |
|  | COSMECOL Blue B 124 | Basic Blue 124 | 67846-56-4 |
|  | COSMECOL Violet B 02 | Basic Violet 2 | 3248-91-7 |

NITRO DYES

The so called **Nitro dyes** are often small molecules and can naturally penetrate into the cuticle, close to the cortex.

They are providing **very bright shades and intensive highlights**.

It is possible to combine them with other semi-permanent dyes families in order to achieve a **large number of shade effects**.



| | REFERENCE | INCI NAME | CAS NR |
|---|----------------------|---|-------------|
|  | COSMECOL Yellow N 02 | HC Yellow 2 | 4926-55-0 |
|  | COSMECOL Yellow N 04 | HC Yellow 4 | 59820-43-8 |
|  | COSMECOL Yellow N 05 | HC Yellow 5 | 56932-44-6 |
|  | COSMECOL Red N 03 | HC Red 3 | 2871-01-4 |
|  | COSMECOL Red N-BN | 4-Hydroxypropylamino-3-nitrophenol | 92952-81-3 |
|  | COSMECOL Blue N 02 | HC Blue 2 | 33229-34-4 |
|  | COSMECOL Blue N 12 | HC Blue 12 | 132885-85-9 |
|  | COSMECOL Blue N 14 | HC Blue 14 | 99788-75-7 |
|  | COSMECOL Blue N 15 | HC Blue 15 | 74578-10-2 |
|  | COSMECOL Blue N 16 | HC Blue 16 | 502453-61-4 |
|  | COSMECOL Violet N 05 | N,N'-bis(2-hydroxyethyl)-2-nitro-p-phenylenediamine | 84041-77-0 |
|  | COSMECOL N-2NPD | 2-Nitro-p-phenylenediamine | 5307-14-2 |
|  | COSMECOL N-ANP | 4-Amino-3-nitrophenol | 610-81-1 |
|  | COSMECOL N-4NPD | 4-Nitro-o-phenylenediamine | 99-56-9 |

OXIDATION INTERMEDIATES

Oxidation or permanent dyeing is achieved by the chemical combination of dyeing intermediates.

These chemical intermediates are not giving a shade by themselves but are forming **colored polymers** when they are properly combined. Due to their small size, they can **penetrate easily** into hair fibers.

The colored polymer is formed inside hair fibers and cannot be removed by simple washes. This is a **long lasting or permanent dyeing**.

Bases are combined with couplers to form a wide range of natural shades, natural shades with highlights or only highlights.



| BASES | INCI NAME | CAS NR |
|-------------------|--|-------------|
| COSMECOL OI-4AMC | 4-Amino-m-cresol | 2835-99-6 |
| COSMECOL OI-HDPS | 1-Hydroxyethyl-4,5-Diaminopyrazole sulfate | 155601-30-2 |
| COSMECOL OI-NHPPS | N,N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate | 54381-16-7 |
| COSMECOL OI-HPPS | Hydroxyethyl-p-phenylenediamine sulfate | 93841-25-9 |
| COSMECOL OI-CPDS | o-Chloro-p-Phenylenediamine sulfate | 61702-44-1 |
| COSMECOL OI-PAP | p-Aminophenol | 123-30-8 |
| COSMECOL OI-PAPS | p-Aminophenol sulfate | 63084-98-0 |
| COSMECOL OI-PMAPS | p-Methylaminophenol sulfate | 55-55-0 |
| COSMECOL OI-NPPDS | N-Phenyl-p-Phenylenediamine sulfate | 4698-29-7 |
| COSMECOL OI-PPD | p-Phenylenediamine | 106-50-3 |
| COSMECOL OI-TAPS | Tetraaminopyrimidine sulfate | 5392-28-9 |
| COSMECOL OI-TD | Toluene-2,5-diamine | 95-70-5 |
| COSMECOL OI-TDS | Toluene-2,5-diamine sulfate | 615-50-9 |
| COSMECOL OI-PPDS | p-Phenylenediamine sulfate | 16245-77-5 |

OXIDATION INTERMEDIATES

| COUPLERS | INCI NAME | CAS NR |
|-------------------|---|------------|
| COSMECOL OI-AHP | 2-Amino-3-hydroxypyridine | 16867-03-1 |
| COSMECOL OI-DAP | 2,6-Diaminopyridine | 141-86-6 |
| COSMECOL OI-AHT | 4-Amino-2-hydroxytoluene | 2835-95-2 |
| COSMECOL OI-MHAP | 2-Methyl-5-hydroxyethylaminophenol | 55302-96-0 |
| COSMECOL OI-MRS | 2-Methylresorcinol | 608-25-3 |
| COSMECOL OI-ACC | 5-Amino-6-chloro-o-cresol | 84540-50-1 |
| COSMECOL OI-AHEAS | 2-Amino-4-hydroxyethylaminoanisoile sulfate | 83763-48-8 |
| COSMECOL OI-N | 1-Naphthol | 90-15-3 |
| COSMECOL OI-2ND | 1,5-Naphthalenediol | 83-56-7 |
| COSMECOL OI-24DPD | 2,4-Diaminophenoxyethanol dihydrochloride | 66422-95-5 |
| COSMECOL OI-24DPS | 2,4-Diaminophenoxyethanol sulfate | 70643-20-8 |
| COSMECOL OI-MAP | m-Aminophenol | 591-27-5 |
| COSMECOL OI-PMP | Phenyl methyl pyrazolone | 89-25-8 |
| COSMECOL OI-RS | Resorcinol | 108-46-3 |
| COSMECOL OI-4CLR | 4-Chlororesorcinol | 95-88-5 |
| COSMECOL OI-PC | pyrocatechol | 120-80-9 |



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