



## HAIR DYES



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# HAIR DYES

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 dying is achieved by the chemical combination of dying 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 dying.

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-hydroxyethylaminoanisole 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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