

## COLORANTE PONCEAU 4R

Dye for application in cosmetics, home and fabric care

**chemical nature** azo dye  
**CAS number** 2611-82-7

**EU Cosmetic Regulation** (EC) No.1223/2009 and amendments, list of colorants allowed in cosmetic products, Purity criteria as set out for E 124 (EC231/2012).

### EU Cosmetic Regulation

Local regulations should always be considered and adhered to in regards to product applications.

**shade** yellowish red  
**molecular weight** 539 g/mol  
**physical form** reddish brown powder  
**shelf life** at least 5 years from the date of manufacture  
**fastness to light** 2 – 3 (full shade) (1 = worst, 8 = best rating)

### microbiological profile

total viable count	gram-negative bacilli	staphylococcus aureus
≤ 100 cfu/g	negative to test/0.1 g	negative to test/0.1 g

### solubility (20 °C [68 °F])

water	oils	ethanol 80 %	poly alcohols
> 4 %	insoluble	≥ 0.05 %	0.5 – 2.0 %

### pH stability (0.005 % colorant, 45 °C [113 °F], 3 months)

	pH 1.0	pH 3.0	pH 9.0	pH 11.0	pH > 13.0
instant color change	no	no	no	slightly darker	brown
chemical stability	stable	stable	stable	stable	slight changes

bleach stability (0.005% colorant, 45 °C [113 °F], 3 months)	1.5% NaOCl (pH 11)	20% H <sub>2</sub> O <sub>2</sub> (pH 7)
	unstable	unstable

<b>application</b>	personal care applications including cosmetics (e.g., shampoos, lotions, face wash, creams), home and fabric care formulations (e.g., liquid detergents, dish wash, detergent tablets)
<b>guideline for use</b>	The product is compatible with a wide range of aqueous and alcohol-based formulations. It can be directly added to the formulation or pre-diluted in water and is compatible with other anionic dyes and hence can be used for dye mixtures.