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Expediting Topical Cream Development with Kolliphor® CS A

Kolliphor® CS A (cetostearyl alcohol [type A], emulsifying) an excipient combination product that exemplifies both structuring agent and emulsifier properties.

Suitable for creams and lotions, this excipient's ability to build its own consistency and viscosity can be attributed to its self-emulsifying system, making this **unique product a convenient and easy-to-use cream base for various topical applications**. Kolliphor® CS A can be used with a wide range of emollients including, but not limited to, Kollisolv® MCT 70 (medium chain triglycerides), Kollicream® OA (oleyl alcohol), and Kollicream® OD (octyldodecanol). When formulated with adjunct emulsifiers such as Kolliphor® CSS (sodium cetostearyl sulfate), the emulsifier content can synergistically work to **build robust and stable emulsions**.



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Kolliphor® CS A flexible emollient cream

Phase	Ingredient	Wt/wt %
A	Deionized water	80.2
B	Xanthan gum	0.1
	Euxyl™ K 712	1.5
C	Kolliphor® CS A	6
	Kolliphor® CSS	2.2
D	Kollicream® emollient	10

Kolliphor® CS A



Procedure (liquid lamellar gel method):

1. Heat A to 95 °C.
2. Premix B and add to A while mixing using an overhead mixer.
3. Add C to A/B until combined while mixing at a slow speed.
4. Test for homogeneity, ensuring the mixture doesn't separate.
5. Once fully combined, remove heat and continue to mix until cooled to room temperature.
6. Slowly add D, mixing until uniform on slow speed.

Selecting the right emollient

The Kolliphor® CS A flexible emollient cream is a base cream that is formulated via the liquid crystalline lamellar gel network technique. Developed with **both efficacy and sensory** in mind, this flexible cream can be adjusted to suit various APIs as it is compatible with a wide range of BASF lipidic emollients.

Product	Chemical name	Monograph
Kollicream® OA	Oleyl alcohol	Ph. Eur, USP-NF
Kollicream® 3C	Cocoyl caprylocaprate, Coco-caprylate/caprate	Ph. Eur.
Kollicream® IPM	Isopropyl myristate	Ph. Eur, USP-NF
Kollicream® OD	Octyldodecanol	Ph. Eur, USP-NF
Kollicream® DO	Decyl oleate	Ph. Eur.
Kollisol® MCT 70	Medium chain triglycerides	Ph. Eur, USP-NF

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