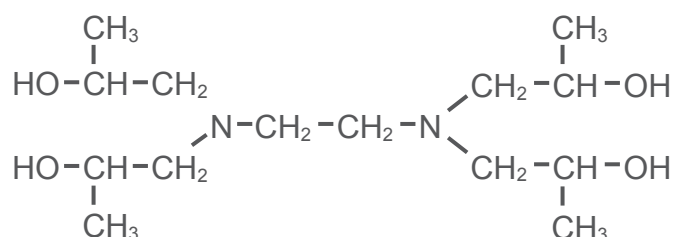


ADEKA CARPOL MD-100

ADEKA CARPOL MD-100 is a water-soluble alkanolamine.

It can be used as an anionic surfactant such as fatty acid soap, a neutralizer for carbomer and a pH adjuster.



Label name of cosmetic ingredient	Tetrahydroxypropyl ethylenediamine
INCI name	TETRAHYDROXYPROPYL ETHYLENDIAMINE
Label name of quasi-drug ingredient	Tetrakis (2-hydroxypropyl) ethylenediamine

Comparison of Fatty Acid Neutralizers

		(1)	(2)	(3)
		[g]	[g]	[g]
1	Myristic acid	45.68	45.68	50.0
2	CARPOL MD-100 [N:2]	46.79	-	-
3	TEA (Triethanolamine) [N:1]	-	47.84	-
4	KOH (potassium hydroxide)	-	-	12.3
5	Purified water	20	20	20
	Appearance	Colorless transparent liquid	Light yellow paste	White solid
	pH (10% aqueous solution)	8.08	8.59	9.97

<Compounding steps>

- I. Heat 1 to 80°C and dissolve evenly.
- II. Dissolve 2, 3 or 4 completely in 5 to make a homogenous mixture.
- III. Add II to I while stirring and mix well to make a homogenous mixture.
- IV. Degas as necessary and cool to 40°C or lower.



A less colored liquid soap is obtained by neutralizing the fatty acids with ADEKA CARPOL MD-100.

Contacts

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