



KANATOL - 3A [DiPA]

DI – ISOPROPYL ADIPATE (K-3A)

Primary carrier for cosmetic ingredients

Chemical Nature

Adipic acid ester of C₃alcohol

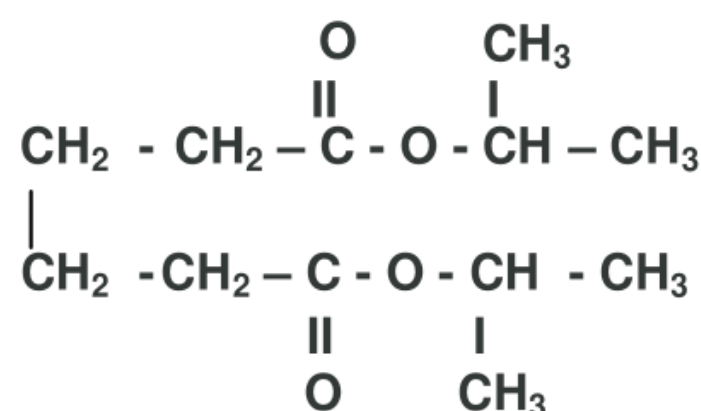
Chemical Name :- Di-Isopropyl Adipate

Trade Name :- K-3A

Molecular Formula :- C₁₂H₂₂O₄

Molecular Weight :- 230.30

Molecular Structure :- (CH₂)₄(COOC₃H₇)₂



CAS Number :- 6938 -94 - 9

UN. NO :- NA

EINECS NO :- 230 – 072 -0

Specification

Characteristics

Unit

Test Method

Value

Colour	HU	ASTM-D-1045-08	25 max.
Volatile Loss (110 °C/ 1Hrs)	wt. %	KLJTM	0.8 max.
Ester Value	mg KOH/g	ASTM-D-1045-08	484 – 490
Acid value	wt. %	ASTM-D-1045-08	1.0 max.
Moisture	wt. %	ASTM-E-203-08	0.15 max.
Specific Gravity (27 °C)	-	ASTM-D-1045-08	0.957 – 0.963
Ester content	wt. %	ASTM-D-1045-86	99.50 min.
Heat Stability (150 °C/ 2Hrs)	HU	ISI-9591-96-13	40 HU
Acidity after heat treatment	wt. %	ASTM-D-1045-08	0.04
Plasticizing Esters by GC	% by area	KLJTM	99.00 min.
Residual alcohol	% by area	KLJTM	0.20 max..

Typical Properties

Boiling Point	°C	Lit	252.6 at760mm
Pour point	°C	Lit.	-4
Viscosity at 20 °C	cp	KLJTM	4 ± 0.5
Refractive Index (27 °C)	-	ASTM-D-1045-86	1.420-1.425.

Total Solution in Plasticizers



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Properties

K-3A is almost colourless oily liquid, having characteristic smell, free of foreign materials. Does not dissolve in water, dissolves in organic solvents,

Application

K-3A acts as a **lubricant on the skin surface** which gives the skin a soft and smooth appearance. Its solvent properties allow its use as a carrier for other cosmetic ingredients and also to soften synthetic compounds by reducing brittleness and cracking.

K-3A finds wide use as a non-oily emollient with rapid absorbency and low residual tack.

It is used in hydro-alcoholic formulations such as shaving lotions, and also grooming products, hand lotions, sun-care products and lipsticks where these properties are highly desirable.

It is suitable for room temperature processing.

K-3A can be used as an adjuvant and as a raw material in the production of Agrochemical intermediates.

Other applications include use as a speciality solvent in household cleaners. They have some function as low temperature resistant and low viscosity plasticizer for PVC and its copolymers and cellulose esters.

Plasticizing Efficiency

NA

Packing & Storage

K-3A is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 MT in Flexi tank / ISO tank / road tanker. It is stored in tightly closed container, in a cool & dry, ventilated area.

Shelf Life

Original characteristics remain intact for 24 months, if kept in recommended storage.

Safety

The MSDS can be provided on request.

Disclaimer

The data contained in this publication are based on our current knowledge and experience. During processing, there are so many factors which may affect the application part of **K-3A**, so these data neither imply any guarantee of certain properties, nor the suitability of the product for the specific purpose. Any data given in this publication may change without prior information and do not constitute the agreed quality of our product.

[Total Solution in Plasticizers](#)