



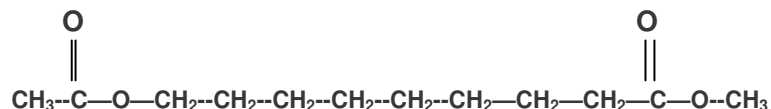
DI – METHYL SEBACATE (KANATOL- 1S) |

DI –METHYL SEBACATE (K-1S)

Light stabilizer & Plasticizer

Chemical Nature Sebacic Acid ester of Methanol

Chemical Name	:-	Di-Methyl Sebacate
Trade Name	:-	K- 1S
Molecular Formula	:-	C₁₂H₂₂O₄
Molecular Weight	:-	230.30
Molecular Structure	:-	CH₃COOC₈H₁₆COOCH₃



CAS Number	:-	106 -79 -6
UN. NO	:-	NA
EINECS NO	:-	203 -431 -4

Specification	Characteristics	Unit	Test Method	Value
	Colour	HU	ASTM-D-1045-08	60 max.
	Volatile Loss (110°C/ 1Hrs)	wt.%	KLJTM	0.50 max.
	Ester Value	mg KOH/g	ASTM-D-1045-08	480 – 486
	Acid value	wt.%	ASTM-D-1045-08	0.5 max.
	Moisture	wt.%	ASTM-E-203-08	0.25 max.
	Specific Gravity (27°C)	-	ASTM-D-1045-08	0.990 – 0.996
	Ester content	wt.%	ASTM-D-1045-86	98.00 min.
	Heat Stability (110°C/ 1Hrs)	HU	ISI-9591-96-13	75 HU
	Acidity after heat treatment	wt.%	ASTM-D-1045-08	0.05
	Plasticizing Esters by GC	% by area	KLJTM	98.00 min.
	Residual alcohol	% by area	KLJTM	0.10 max.

Typical Properties

Boiling Point at 760mm Hg	°C	Lit	287-289
Pour point	°C	Lit.	29 - 31
Viscosity at 27°C	cp	KLJTM	6.5 ± 0.5
Refractive Index (27 °C)	-	ASTM-D-1045-86	1.442-1.448.
Flash Point	°C	Lit	145

Total Solution in Plasticizers



DI –METHYL SEBACATE (KANATOL-1S)

Properties

K-1S is an colourless to yellowish oily liquid, having characteristic smell, free of foreign materials. Does not dissolve in water, dissolves in organic solvents,

Application

K-1S acts as an intermediate to produce **Light stabilizers for hindered amines.**

K-1S finds wide use as a Plasticizer with rapid absorbency and low residual tack.

K-1S is also used as a softening agent.

K-1S is used as a solvent for cellulosic resins, synthetic resins and rubbers.

K-1S can also be used in the production of decanedi-hydrazide, which can be Used as a precursor for isocyanates for the synthesis of thermoplastics.

K-1S is widely used in automotive care, filler, paint, pesticide, greases and food contact applications.

Plasticizing Efficiency

N.A.

Packing & Storage

K-1S is packed in 200/225 kg iron drum only. It is stored in tightly closed container, in a cool & dry, ventilated area.

Shelf Life

Original characteristics remain intact for 12 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-1S**, 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](#)