

METHYL ETHYL KETONE**TECHNICAL DATA SHEET**

BC13275E

UN: 1193

CAS: 78-93-3

CHEMICAL FORMULA: C_4H_8O

MOLECULAR WEIGHT: 72.10

PHYSICAL PROPERTIES

Methyl ethyl ketone (MEK), the next higher homologue of acetone, is a colourless, stable, mobile liquid. Unlike acetone, MEK is not completely miscible with water. Like acetone, it is an excellent solvent for most organic materials, particularly those used by the surface coating industry. Cellulose acetate butyrate, cellulose nitrate, ethyl cellulose, acrylic resins, vinyl acetate and vinyl chloride-vinyl acetate copolymers are all soluble in MEK. Also readily dissolved are practically all synthetic and natural resins commonly employed in cellulose nitrate lacquers. Furthermore, MEK is miscible in all proportions with the usual nitrocellulose lacquer solvents.

BOILING POINT @ 101.3 kPa, °C	79.6
SPECIFIC GRAVITY, 20/20°C	0.8062
REFRACTIVE INDEX, n_d @ 20 °C	1.3787
SPECIFIC HEAT @ 20°C, cal/g	0.525
FREEZING POINT, °C	-86.7
VISCOSITY @ 25°C, cp	0.40
SOLUBILITY IN WATER @ 20°C, % wt	26.8
SOLUBILITY OF WATER @ 20°C, % wt	12.5
HEAT OF VAPORIZATION @ 20°C, BTU/lb	212.4
VAPOUR PRESSURE @ 20°C, kPa	77.5
EVAPORATION RATE (n-butyl acetate = 1)	5.7

APPLICATIONS

- Solvent for lacquers
- Extraction processes
- Adhesives
- Chemical products preparation
- Vinyl and acrylic coatings
- Dewaxing agent

SPECIFICATIONS

	TYPICAL VALUE	SPECIFICATION
PURITY, % wt	99.8	99.5 min.
COLOUR, Pt/Co	-	10 max.
SPECIFIC GRAVITY (20/20°C)	0.806	0.805 - 0.807
ACIDITY as acetic acid, CO ₂ free, % wt	-	0.003 max.
NON-VOLATILE MATTER, g/100 mL	-	0.005 max.
ODOUR		Non residual
DISTILLATION RANGE, °C		78.5 – 81.0
WATER, % wt	< 0.05	0.05 max.

COMMERCIAL INFORMATION

Methyl ethyl ketone is available in:

- Steel drums
- I.B.D.
- Tank trucks

We can certify on request that product meets ASTM D740 specifications Type I or type II (formerly TT-M-261)

CONSTRUCTION MATERIALS

COMPATIBLE

- Polypropylene
- Polyethylene
- Phenolic
- Nylon
- Teflon
- Stainless steel (316)
- Stainless steel (304)
- Stainless steel (440)
- Titanium
- Cast bronze
- Cast iron
- Aluminium
- Carbon/ceramic

INCOMPATIBLE

- CPVC
- Epoxy
- PVC
- Viton
- Neoprene
- Natural rubber
- Silicone

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Before using this product, read material safety data sheet and container label.

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