

SOLVENT EMAC - DMC

Product Description

EMAC also named as DMC. At room temperature, it is a colorless and transparent liquid with a pungent odor with a relative density (D204) of 1.0694, a melting point of 4 °C, boiling point of 90.3 °C, the flash point being 21.7 °C (opening) and being 16.7 °C (closed) and the refractive index (nd20) being 1.3687. It is flammable and non-toxic and is miscible with almost all organic solvents in any proportion with alcohols, ketones and esters.

Applications

EMAC can be used as traditional substitute of toxic materials phosgene, dimethyl sulfate and methyl chloride and so on. It can be used for synthesis of polycarbonate, diphenyl carbonate, isocyanate and allyl diglycol carbonate ester; it can also used for the synthesis of various kinds of carbamate pesticides such as carbaryl and so on; it can also be used as intermediate of organic synthesis such as anisole, dimethoxybenzene, alkylated aryl amines, symmetrical diamine urea, methyl carbazate and so on; in the pharmaceutical industry, it can be used for making amino oxazolidinone, ciprofloxacin, β - keto acid ester class pharmaceutical intermediates. In addition, it can be used as additives of gasoline, diesel fuel, the refrigerator oil and solvent.

Typical properties of liquid resin

Property	Unit	Specification
EMAC Content	Wt %	99.5 min
Methanol	Wt %	0.05 max
Moisture	Wt %	0.05 max
Density (20°C)	g/cm ³	1.066- 1.076
Acidity (CH ₃ COOH)	Wt %	0.015 max
Color (Hazen)	ALPHA	10 max
Appearance		Colorless, transparent liquid

Other data

- 1) Physical state: Colorless liquid, Characteristic odor.
- 2) Boiling point/boiling range: 90.1°C
- 3) Melting point/melting range: 4 °C
- 4) Flash point: 16.7°C (closed cup) 21.7°C (opened cup)
- 5) Auto flammability: not pertinent

All the information above is based on data obtained at laboratory and is not to be used for certifying the suitability of the product. Users are advised to test the product in their own system before purchase.

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UN No.: 1161

CAS No.: 616-38-6

HAZARD Class: 3

Packing group: II

Storage

Protect container from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product

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