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Typical Specification

Dimethyl Carbonate

DMC General Info

- DMC is a colorless, fast evaporating solvent
- DMC and Propylene Carbonate VOC exempted by EPA on Jan 13, 2009
- Has substantial polar nature, and moderate h-bonding strength effective in replacing esters, glycol ethers and ketones in formulations
- Has low toxicity, an unobjectionable methanol type odor and low skin irritation
- Freezes at 2 - 4 °C (36 -38 °F)
- Flammable Liquid, Flash point 17 °C (63 °F)

DMC Evaporation Rate

- Fast to moderate evaporation rate (3.22 -3.4, BuAc = 1.0), similar to tBAC (2.8), BTF (2.8) and isopropyl acetate (3.0)
- Can be used to as slightly slower evaporating replacement for MEK (3.8), Ethyl Acetate (4.1- 4.2), or as faster evaporating replacement for IPA (1.7), MPK (2.3), Ethanol (1.8) and MIBK (1.6)

DMC Flammability

- Flammability risk much lower than acetone (-4° F), ethyl acetate (26°F) or MEK (26°F), which DMC can readily replace
- Flammability as minor solvent (<13.9%) in water borne coatings needs to be evaluated

	Evaporation Rate BuAc=1.0	Flashpoint °F	Boiling Point °C
DMC	3.22	63	90

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