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 ºC (36 –38 ºF)
- Flammable Liquid, Flash point 17 ºC (63 ºF)

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 (-4º F), ethyl acetate (26ºF) or MEK (26ºF), which DMC can readily replace
- Flammability as minor solvent (<13.9%) in water borne coatings needs to be evaluated

<table>
<thead>
<tr>
<th></th>
<th>Evaporation Rate BuAc=1.0</th>
<th>Flashpoint ºF</th>
<th>Boiling Point ºC</th>
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<tbody>
<tr>
<td>DMC</td>
<td>3.22</td>
<td>63</td>
<td>90</td>
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