

Avantor™ Performance Materials

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Re: Freezing of DMSO

MACR2969 - Dimethyl Sulfoxide ChromAR®
MACR4948 - Dimethyl Sulfoxide AR® (ACS)
BAKR9033 - Dimethyl Sulfoxide Multi-Compendial
BAKR9194 - Dimethyl Sulfoxide PHOTREX® Reagent
BAKR9224 - Dimethyl Sulfoxide BAKER ANALYZED® A.C.S. Reagent
BAKR9225 - Dimethyl Sulfoxide HPLC

It is common for Dimethyl Sulfoxide (DMSO) to solidify during shipment and storage in cooler climates. According to most references, this chemical has a freezing point of approximately 18.5 °C, although there are indications that it cools easily. If you are in a cooler geographic location, it seems likely that this product would be exposed to temperatures below the freezing point of this material.

The product should be able to be restored to a liquid form with gentle and careful heating above the freezing point; gentle agitation should also help speed the process. Although DMSO is heat-stable, we do not recommend heating the product beyond 40 °C because of safety concerns. To avoid pressure build-up within the container, the bottle cap or container opening should be loosened to allow venting. Please review the SDS prior to handling the chemical.

Once the entire contents are returned to the liquid state, and assuming any remaining liquid from the frozen state was not compromised, there is no information to indicate that this material would not meet the original label specifications.

If you have any questions or require additional information, please contact Technical Services.

Prepared by the Technical Service Department

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Revision History

Rev. 0; October 25, 2021 – New Document

Rev. 1; September 8, 2023- Reviewed for correctness. Updated date and template format.