TRITON® X-114

Catalog Number X114

Store at Room Temperature

CAS RN 9036-19-5
Synonyms: tert-octylphenoxypoly (ethoxyethanol), poloxylene monooctylphenyl ether, octylenoxypoly (ethyleneoxy) ethanol, tert-octylphenoxy poly(oxyethylene)ethanol

Product Description

The cloud point of a 1% (w/w) TRITON X-114 aqueous solution is increased substantially (to −50 °C) in the presence of small amounts of ionic surfactants (1.25 mM SDS or CTAB). Adding electrolytes to a TRITON X-114 solution decreases the cloud point, the effect being nearly a linear function of the concentration. The combination of electrolyte and ionic surfactant causes a drastic reduction in the cloud point of a TRITON X-114 solution.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

TRITON X-114 is soluble in ethanol (1 ml/10 ml) and is soluble in cold water to at least 5% (w/w). Above the cloud point, phase separation occurs.

Storage/Stability

Store the product at room temperature. Any substance containing ether linkages, however, is subject to the formation of peroxides. For sensitive applications, storage under inert gas at 2–8 °C is recommended.

References


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