

Safewing MP I 1938 ECO (80) Aircraft De-icer

Product Description

Type I aircraft de-/anti-icing fluid based on propylene glycol

Application Advice

Safewing MP I 1938 ECO (80) has to be applied in accordance with the latest edition of official documents published by FAA, AEA, ISO, SAE or individual airlines.

Product Properties

The typical values below are used as a product description and are based on our own measurements. They are not part of the product specification. The current product specification can be obtained from Clariant Produkte (Deutschland) GmbH.

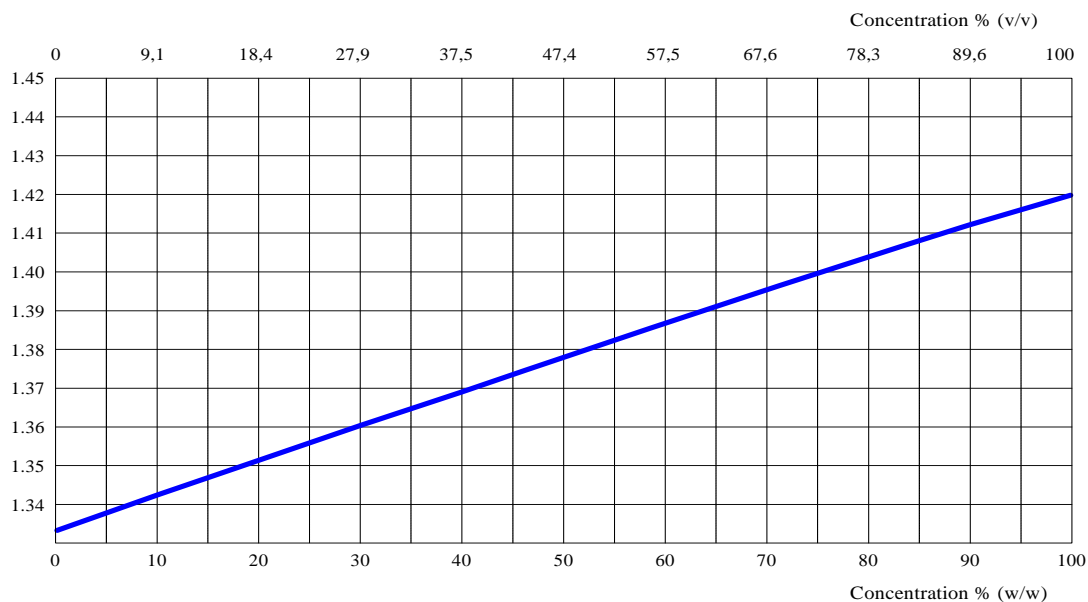
Appearance		orange
Density at 20 °C (DIN 51757, ASTM D 1122)	g/cm ³	1,035 – 1,055
Refractive index at 20 °C (DIN 51423, ASTM D 1747)		1,416 – 1,419
pH value (DIN 19268, ASTM E 70)		8,0 – 9,5
Water content (DIN 51777, ASTM E 203)	%	18 – 20
Freezing point (ASTM D 1177) diluted 50:50 with water (v/v)	°C	below –20
Viscosity, kinematic at 20°C (DIN 51777)	mm ² /s	19 – 24
Ignition Temperature (DIN 51794)	°C	more than 400
Flash point (DIN 51376, ASTM D 92)	°C	more than 100
Boiling point at 1013 h Pa (ASTM D 1120)	°C	116
Water spray endurance time (ISO 11075, AMS 1424)	min	more than 3
High humidity endurance time (ISO 11075, AMS 1424)	min	more than 20
Lowest operational use temperatures according to ISO 11076, ARP 4737		
diluted 75:25 with water (v/v)	°C	-28,5 ¹
diluted 71:29 with water (v/v)	°C	-33,5 ¹
diluted 50:50 with water (v/v)	°C	-11 ²
COD (DIN 38409 H.41)	mg/g	1300

¹ Lowest tested temperature in aerodynamic acceptance test.

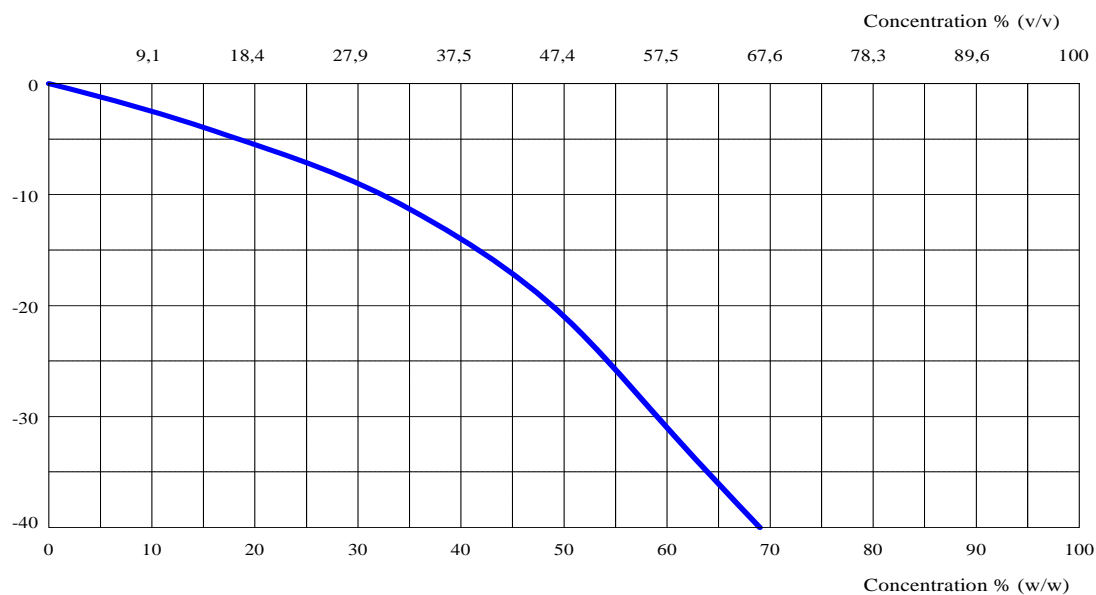
² Required buffer according to ISO 11076, ARP 4737: 10°C.

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Refractive index at +20°C (DIN 51 423)



Freezing point (ASTM D 1177)



This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not, therefore, be constructed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

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