

## RENISO TRITON SE 170

### Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

#### Description

The refrigeration oil RENISO TRITON SE 170 is based on synthetic polyol ester that were especially developed for use with chlorine-free, fluorinated hydrocarbons. RENISO TRITON SE 170 refrigeration oil is miscible and compatible with HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

#### Application

The RENISO TRITON SE 170 is outstandingly suited for all refrigeration circuits, in which chlorine-free HFC/FC refrigerants, e.g., R134a, R404A or R410A are used. RENISO TRITON SE 170 refrigeration oil is also suitable for HFO and HFO/HFC refrigerants. Depending on the viscosity the refrigeration oil is recommended for hermetical, semi-hermetical and open piston compressors and for screw-type and turbo-compressors. RENISO TRITON SE 170 is especially suitable for deep-freeze systems operating with R23.

RENISO TRITON SE 170 product is also suitable for hydrocarbon refrigerants (e.g. propane, polypropylene, isobutane) and R22. If RENISO TRITON SE 170 is used with the above mentioned HC refrigerant its recommend to contact the FUCHS application engineers.

#### Specifications

RENISO TRITON SE 170 lubricant fulfill and exceed the requirements acc. to DIN 51503-1, Groups KC, KD, KE.

#### Advantages/ Benefits

- Special synthetic polyol ester
- Stable lubrication film even at high temperatures, outstanding lubricity
- Excellent miscibility with HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends
- Very high thermal and chemical stability in the presence of fluorinated refrigerants
- Good viscosity-temperature behavior
- Excellent cold temperature flowability
- Secure oil return from the system, good heat transfer
- Good compatibility with elastomers and materials normally used in refrigeration circuits
- Approved by leading compressor manufacturers
- Ultra-dried

#### Note

Because of their chemical structure, ester-based oils tend to absorb water. For this reason, RENISO TRITON SE 170 should be in contact with ambient air only for a short time. When opened, the content should be used up in short time.

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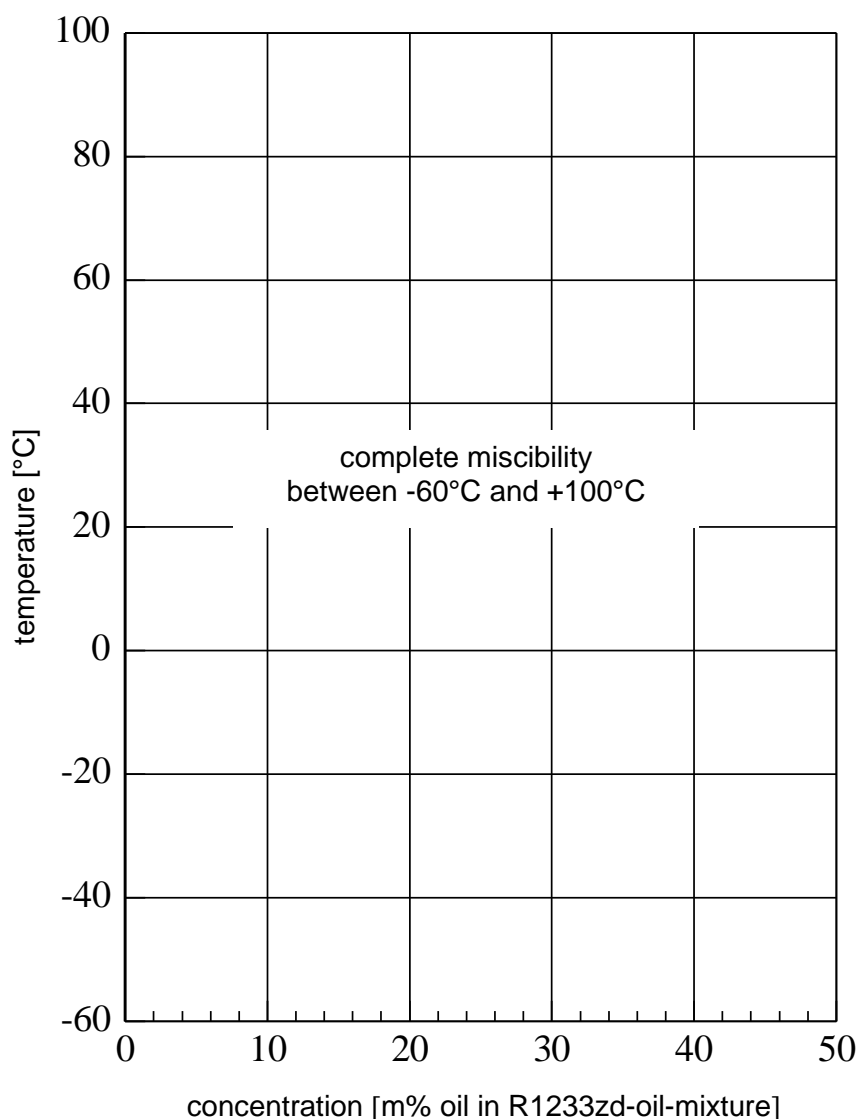
### Typical data:

Product name		RENISO TRITON SE 170	
Properties	Unit		Test method
Density at 15 °C	kg/m <sup>3</sup>	972	DIN 51757
Flash point	°C	260	DIN ISO 2592
Colour	-	1.0	DIN ISO 2049
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	173	DIN EN ISO 3104
at 100 °C	mm <sup>2</sup> /s	17.1	
Viscosity index	-	106	DIN ISO 2909
Pourpoint	°C	-27	DIN ISO 3016
Neutralisation number	mgKOH/g	0.03	DIN 51558-1
Water content	mg/kg	< 50	DIN 51777-2

## RENISO TRITON SE 170

**Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.**

**Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R1233zd**



PI 4-1327, Page 3; PM 4 / 09.21

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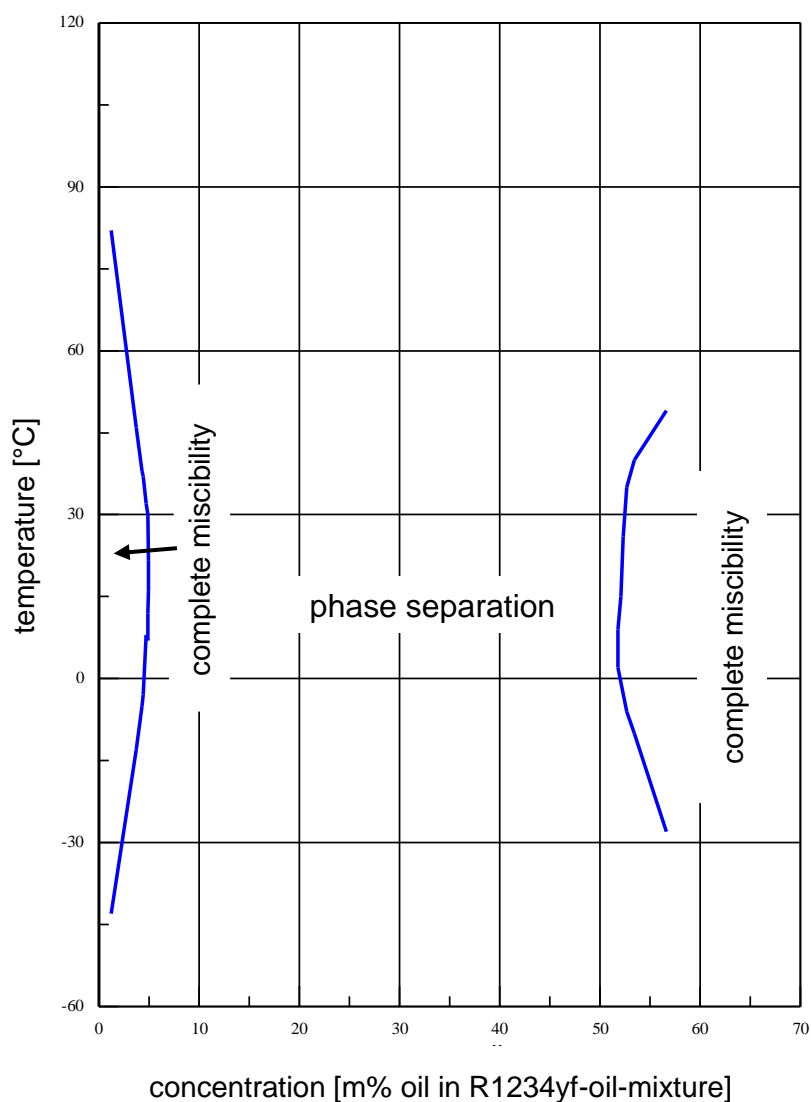
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R1234yf



PI 4-1327, Page 4; PM 4 / 09.21

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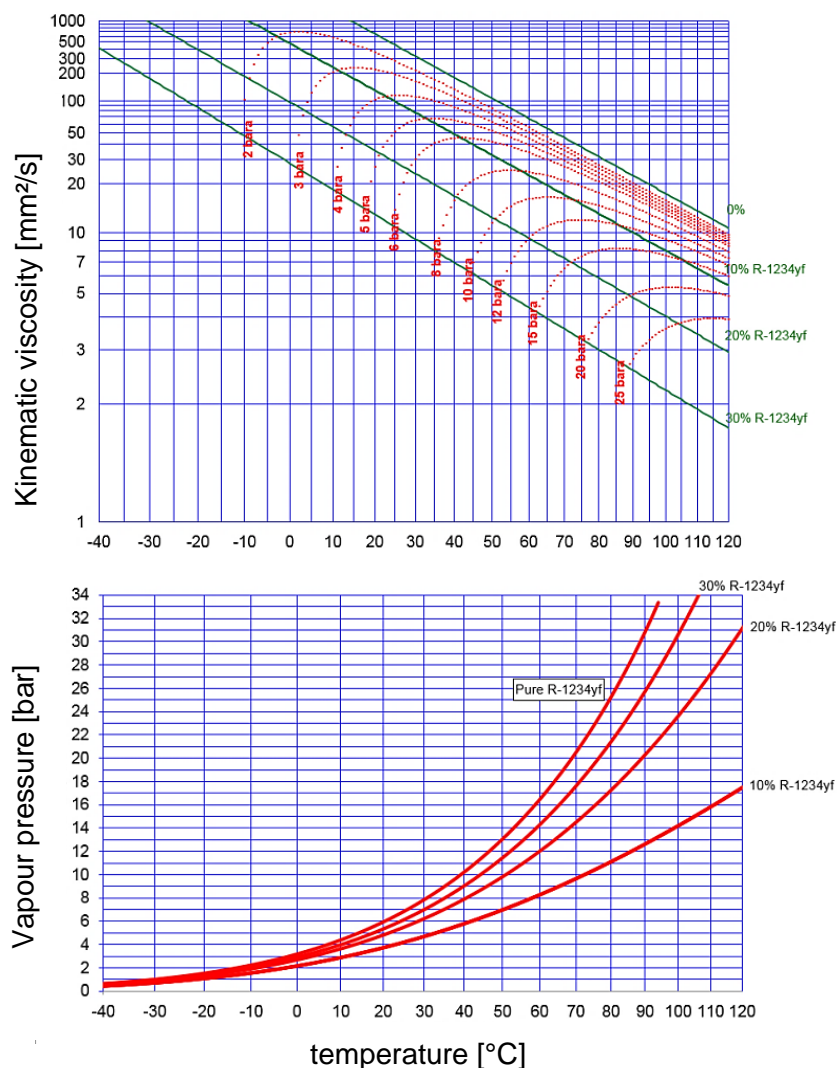
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Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

**Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R1234yf**



All % figures represent m% refrigerant in the refrigerant-oil-mixture.

PI 4-1327, Page 5; PM 4 / 09.21

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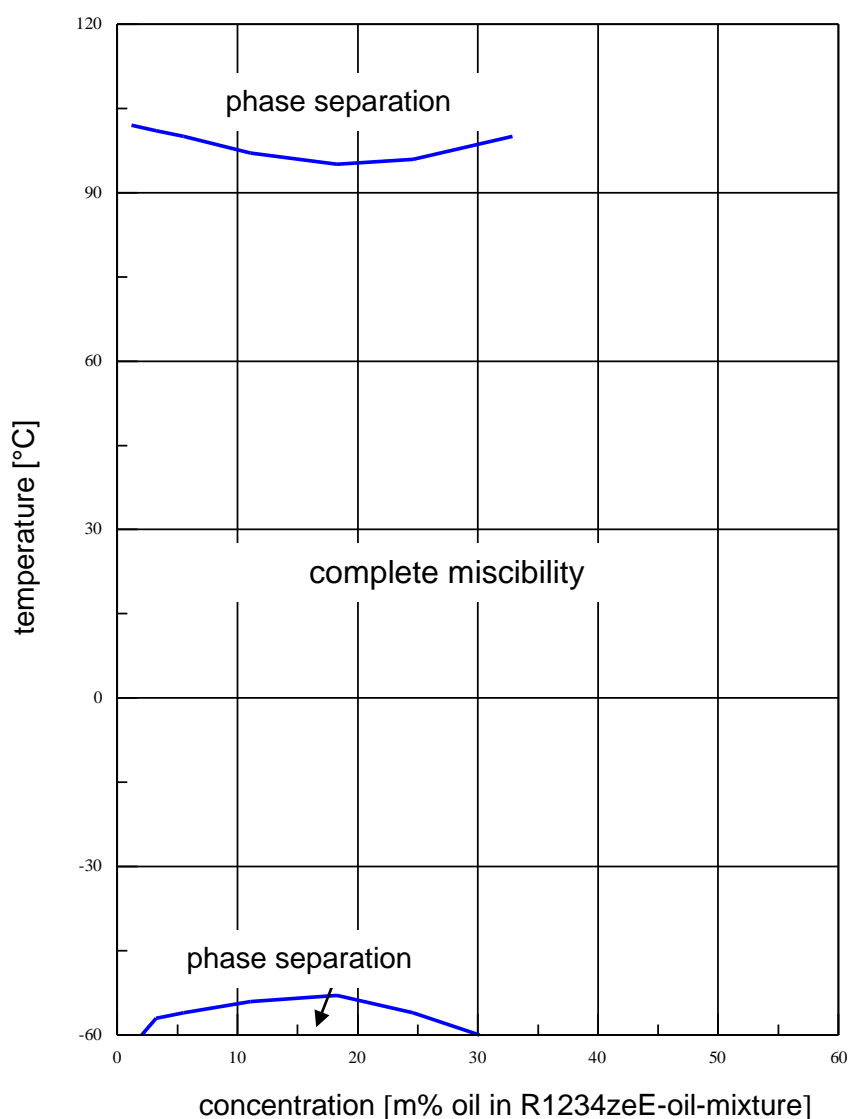
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R1234zeE**



PI 4-1327, Page 6; PM 4 / 09.21

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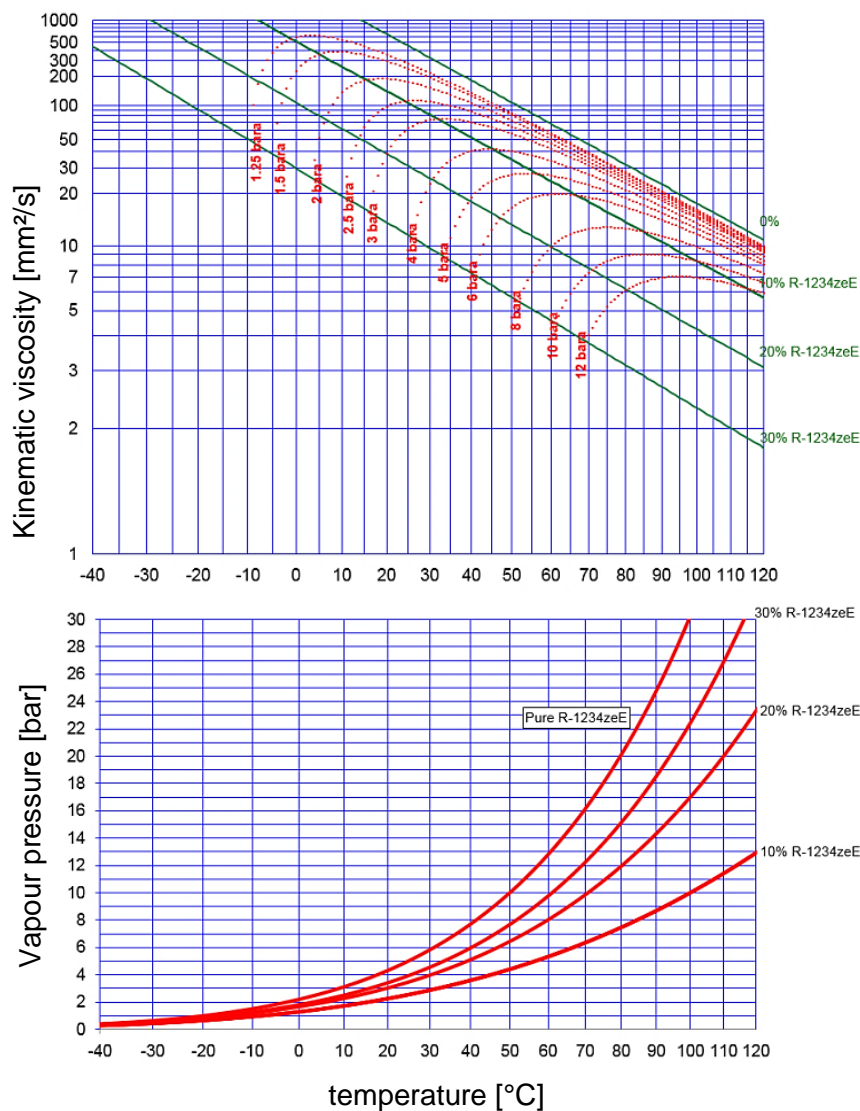
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

### Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R1234zeE



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PI 4-1327, Page 7; PM 4 / 09.21

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TS 504287 FM 58508 FM 609812 OHS 575079 EMS 71162 ENMS 621315

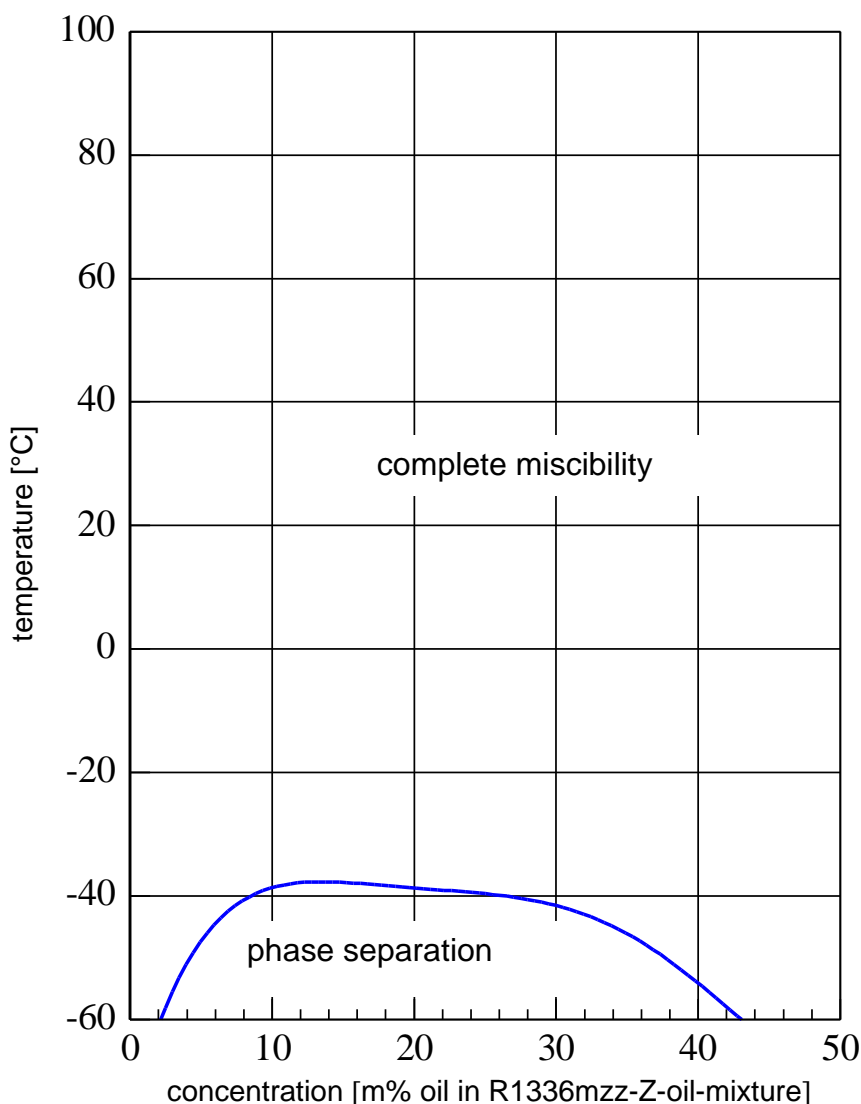
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**Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.**

**Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R1336mzz-Z**



PI 4-1327, Page 8; PM 4 / 09.21

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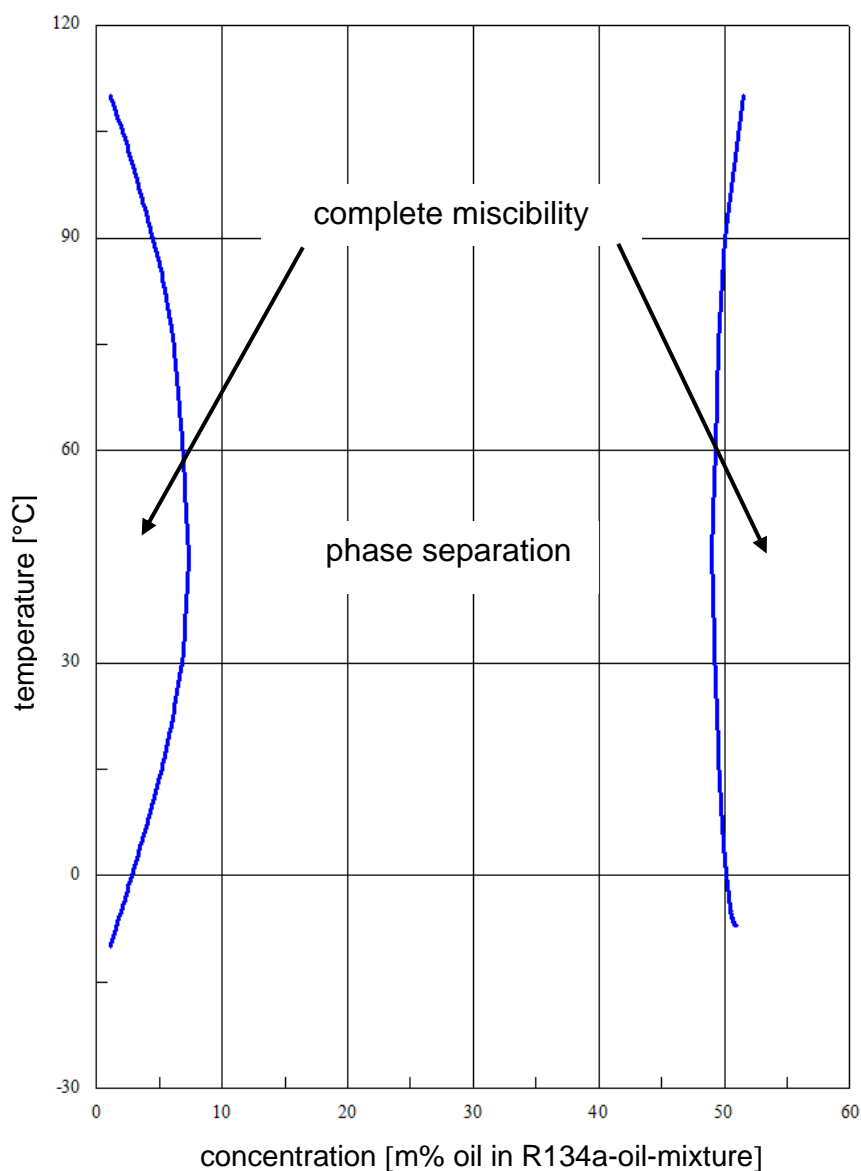
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### Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R134a



PI 4-1327, Page 9; PM 4 / 09.21

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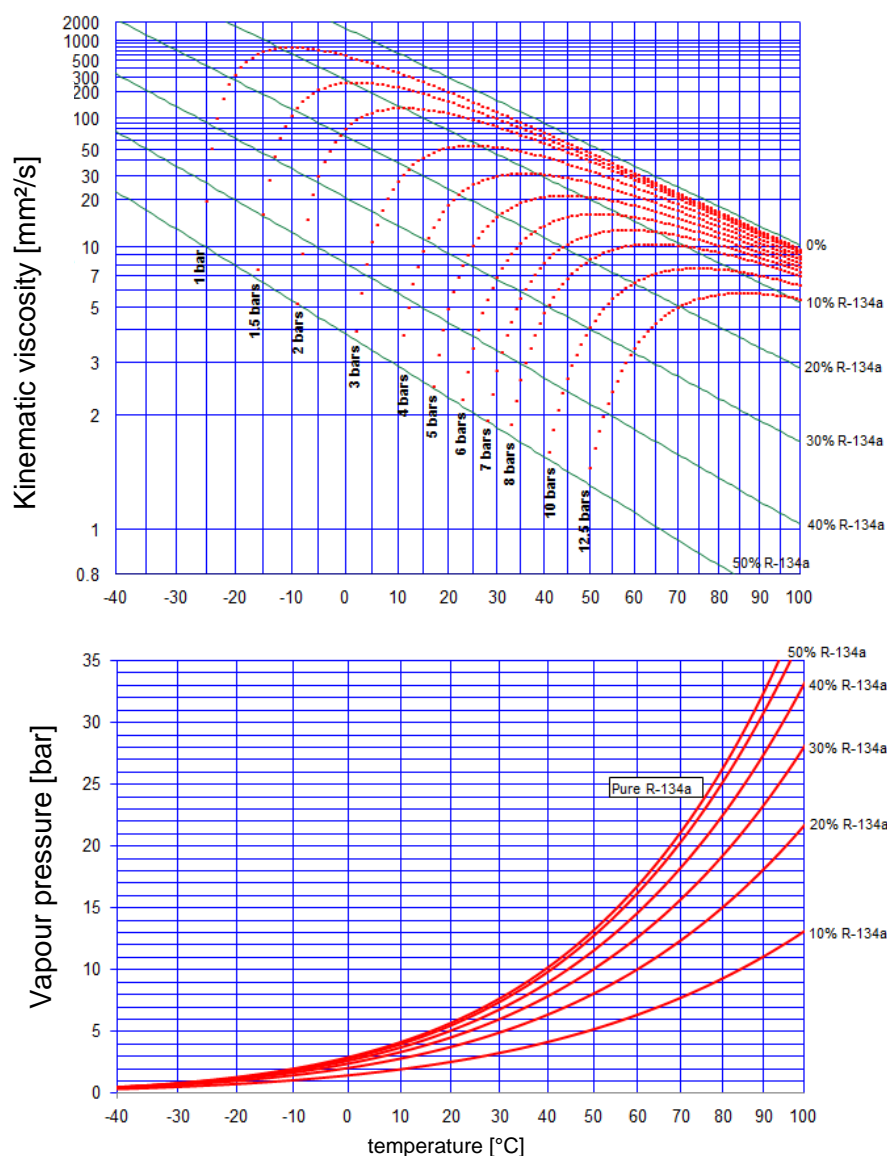
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### Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R134a



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PI 4-1327, Page 10; PM 4 / 09.21

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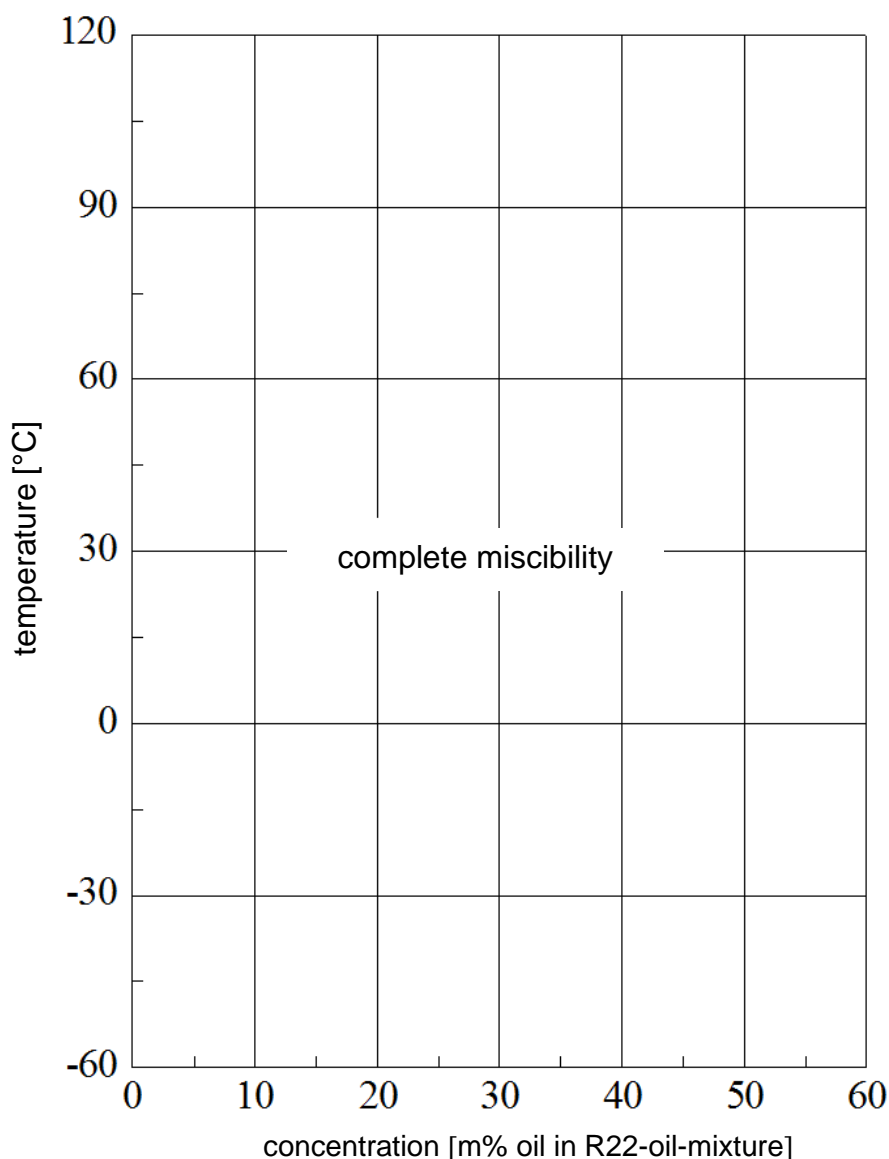
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R22**



PI 4-1327, Page 11; PM 4 / 09.21

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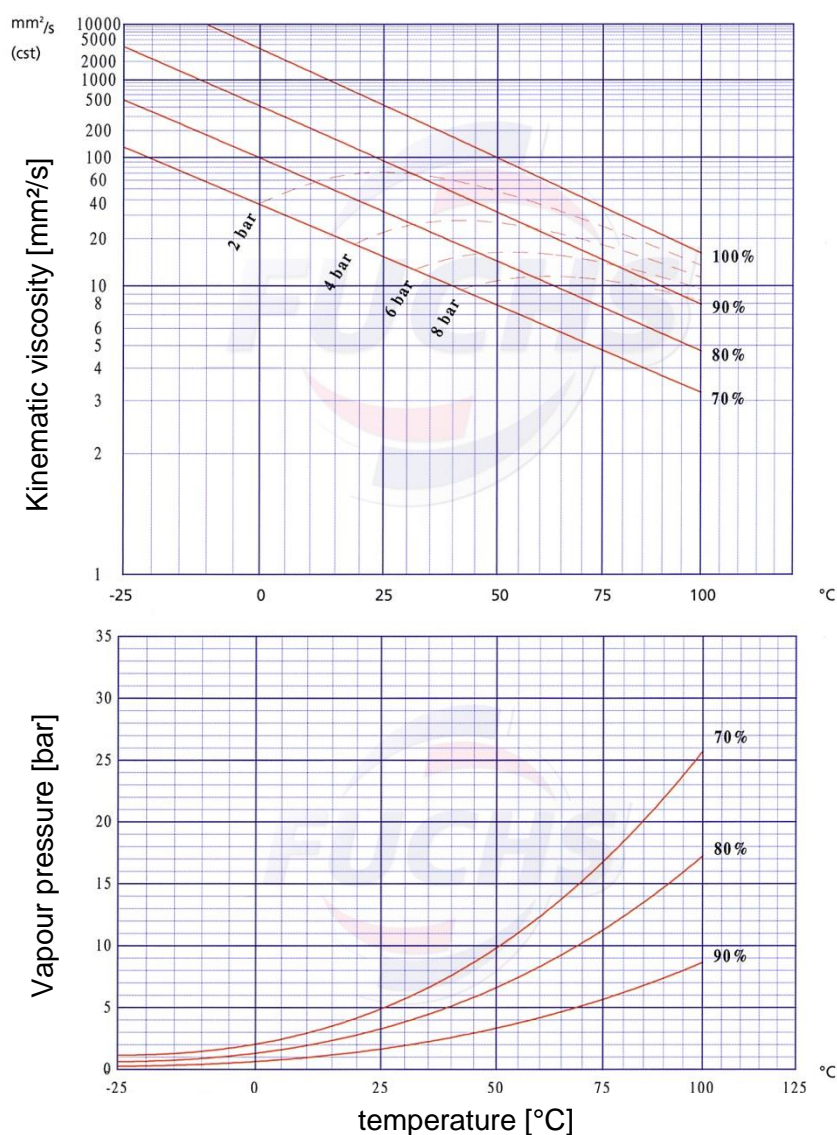
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**Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R22**



All % figures represent m% oil in the refrigerant-oil-mixture.

PI 4-1327, Page 12; PM 4 / 09.21

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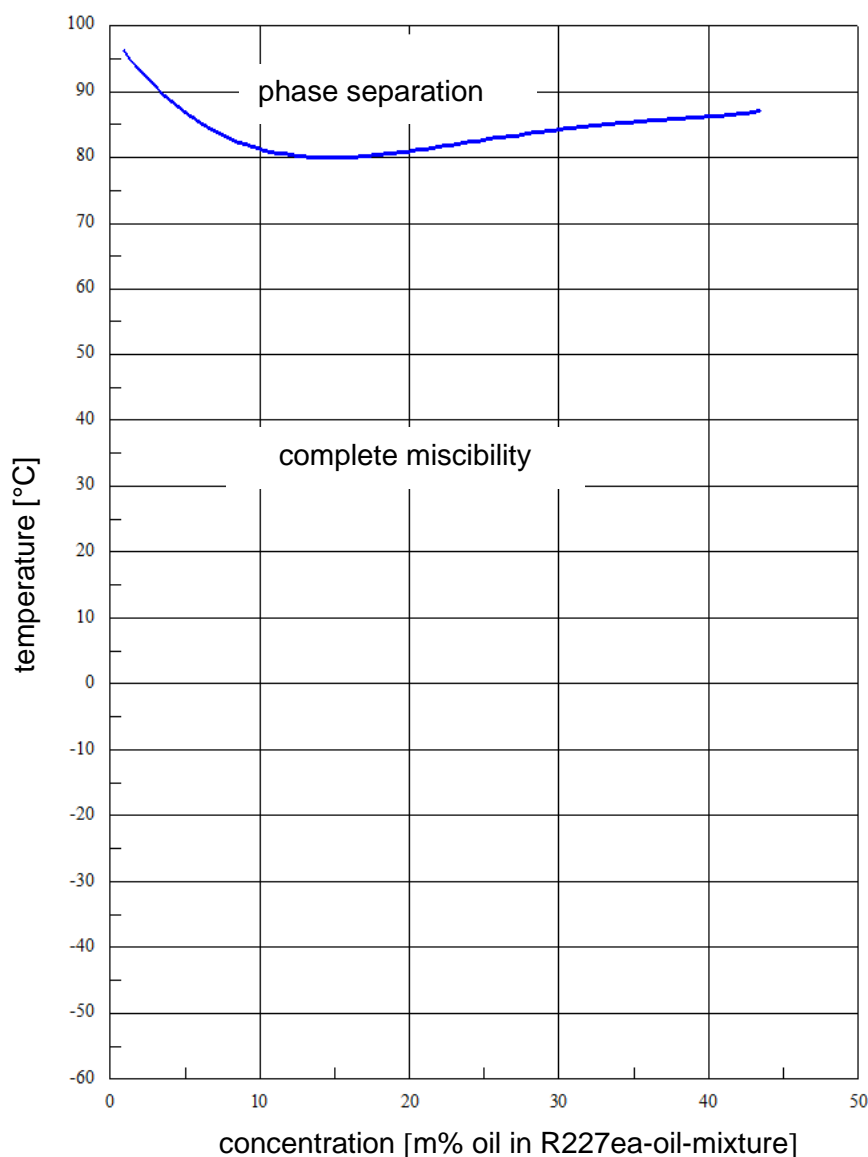
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Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R227ea



PI 4-1327, Page 13; PM 4 / 09.21

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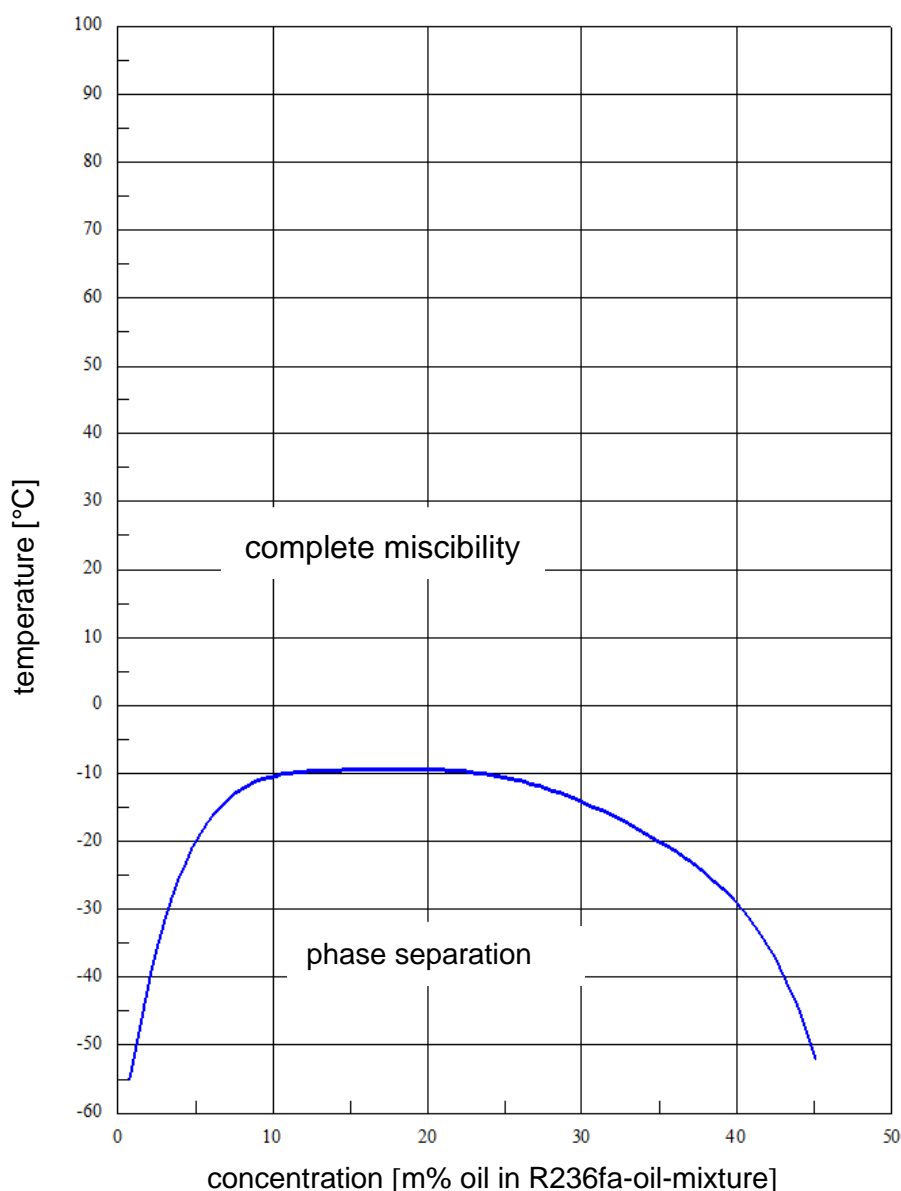
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### Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R236fa



PI 4-1327, Page 14; PM 4 / 09.21

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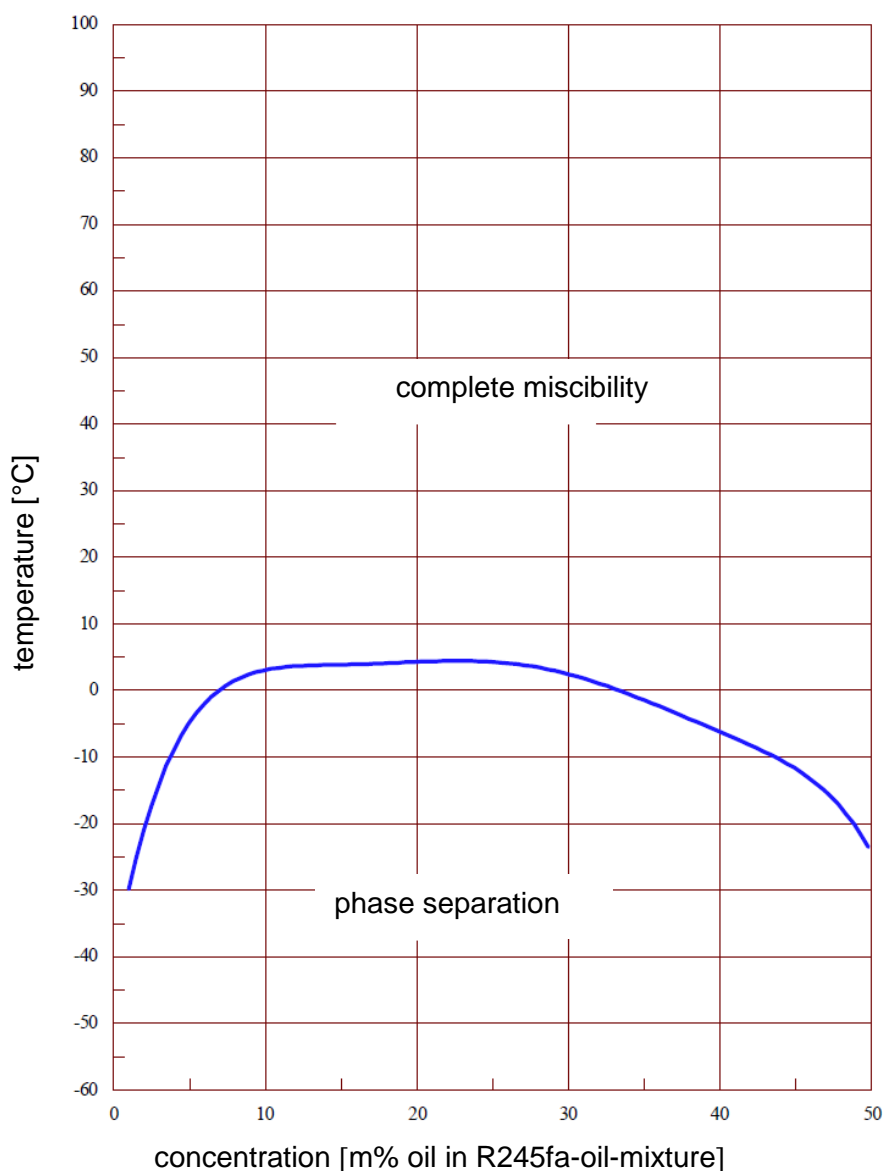
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Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R245fa



PI 4-1327, Page 15; PM 4 / 09.21

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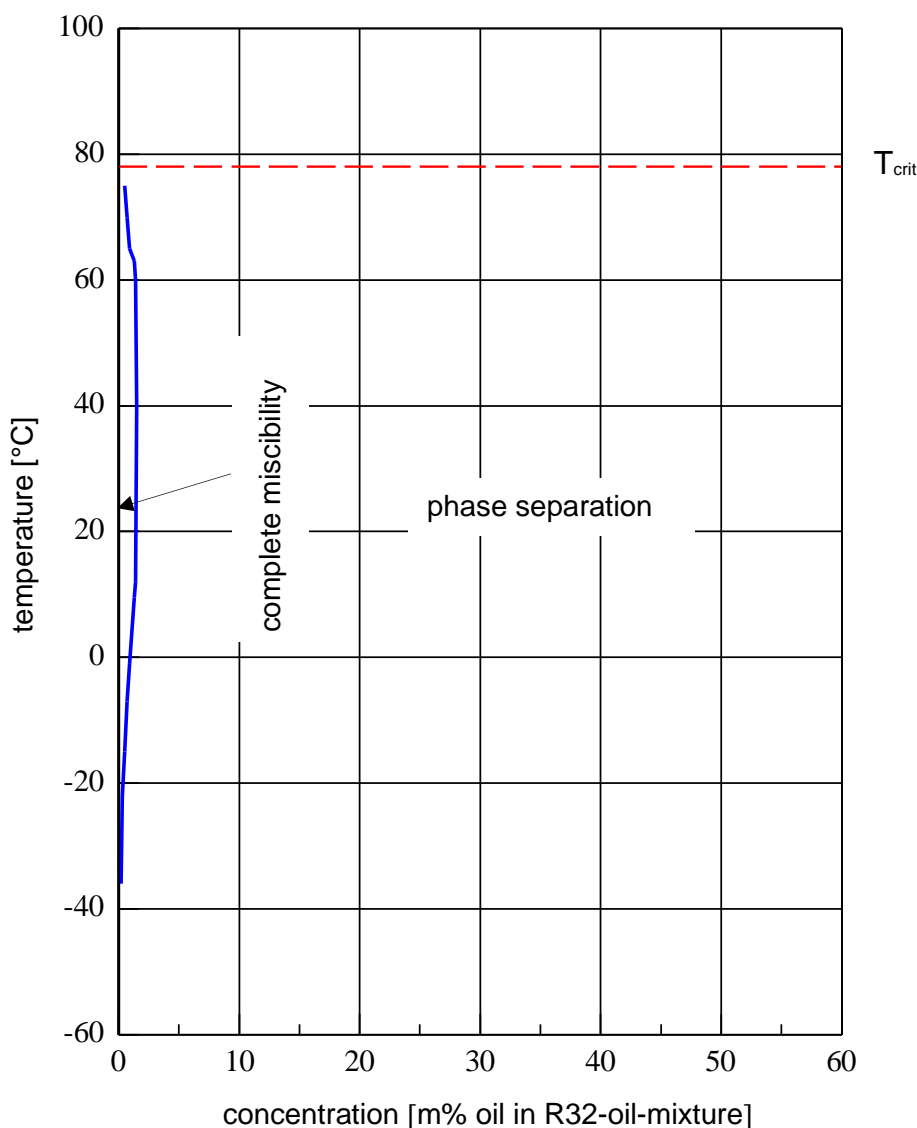
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### Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R32



PI 4-1327, Page 16; PM 4 / 09.21

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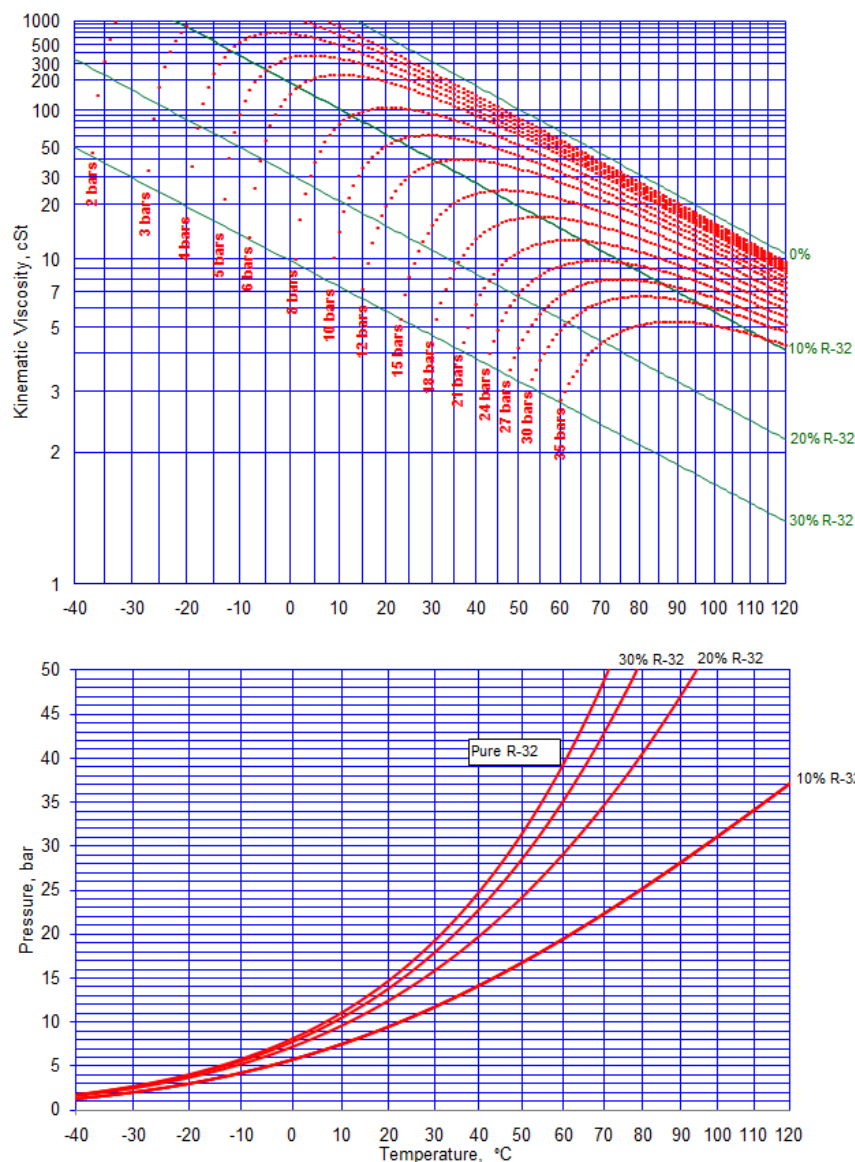
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### Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R32



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PI 4-1327, Page 17; PM 4 / 09.21

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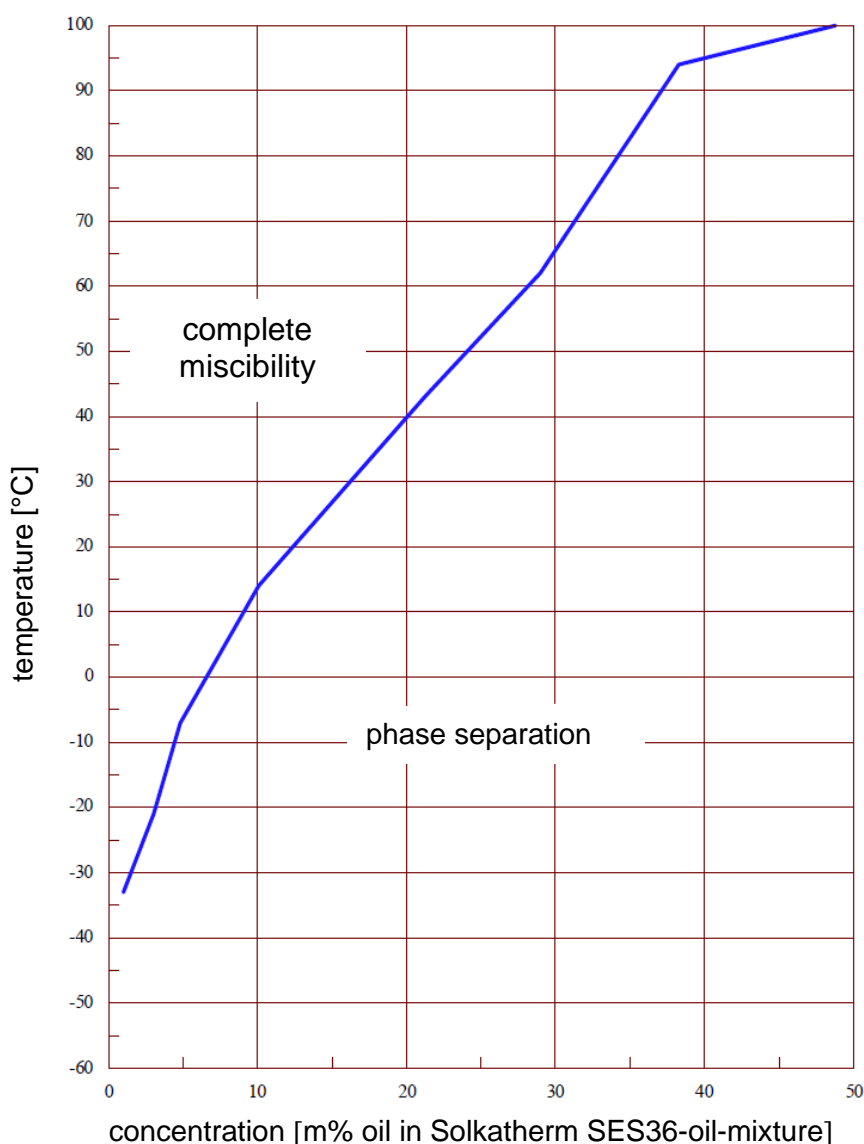
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Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and Solkatherm SES36



PI 4-1327, Page 18; PM 4 / 09.21

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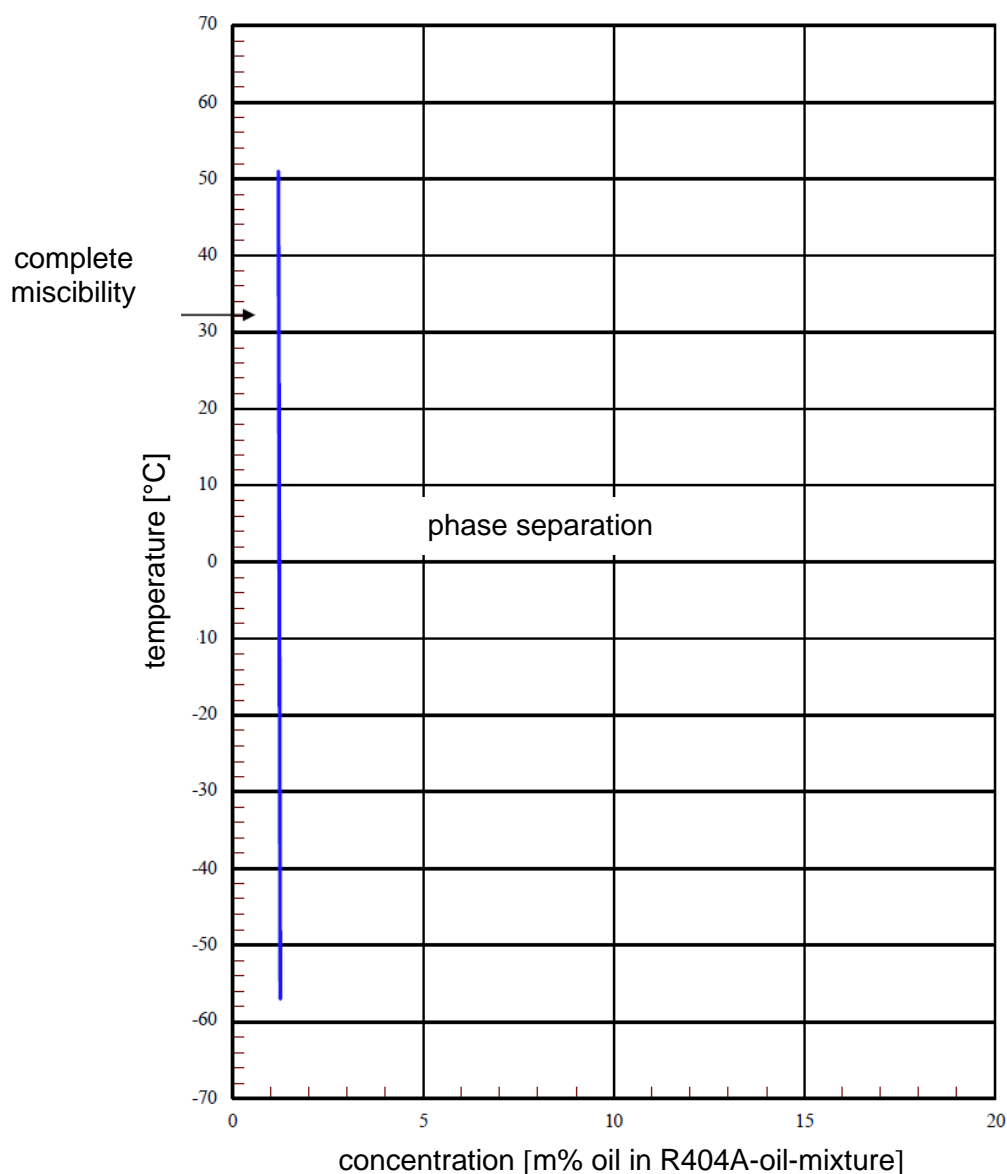
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R404A**



PI 4-1327, Page 19; PM 4 / 09.21

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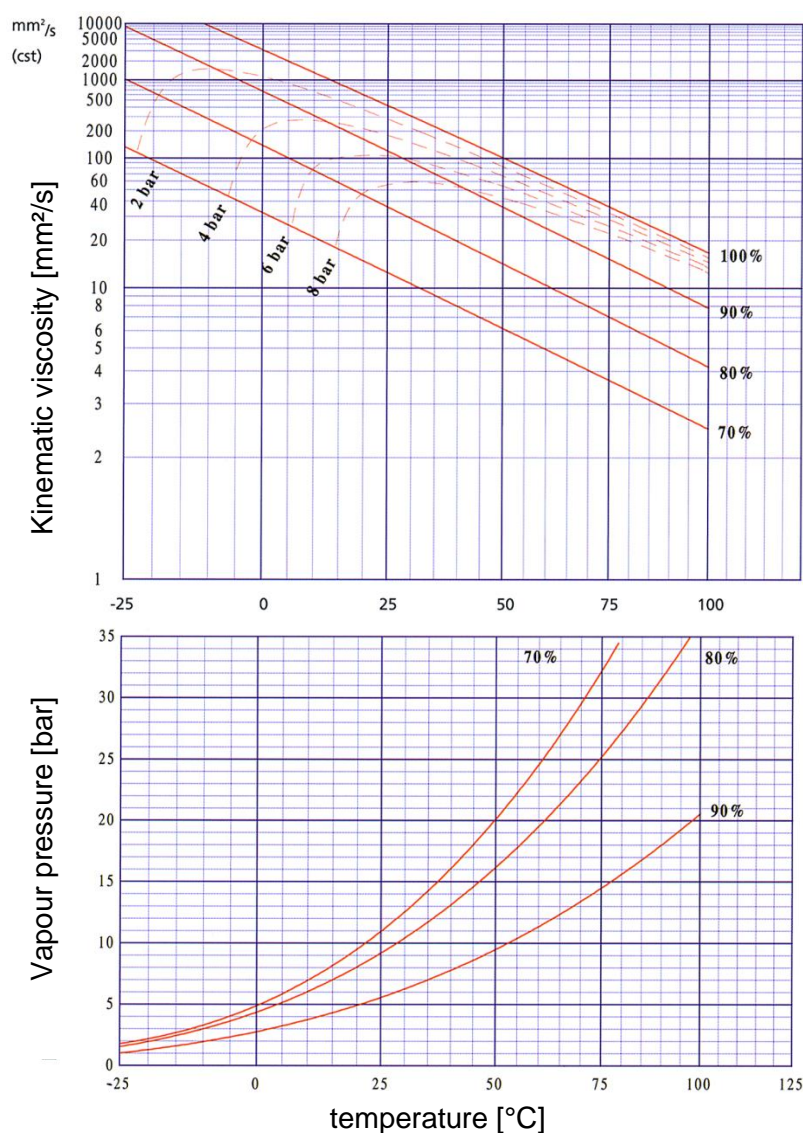
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**Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R404A**



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PI 4-1327, Page 20; PM 4 / 09.21

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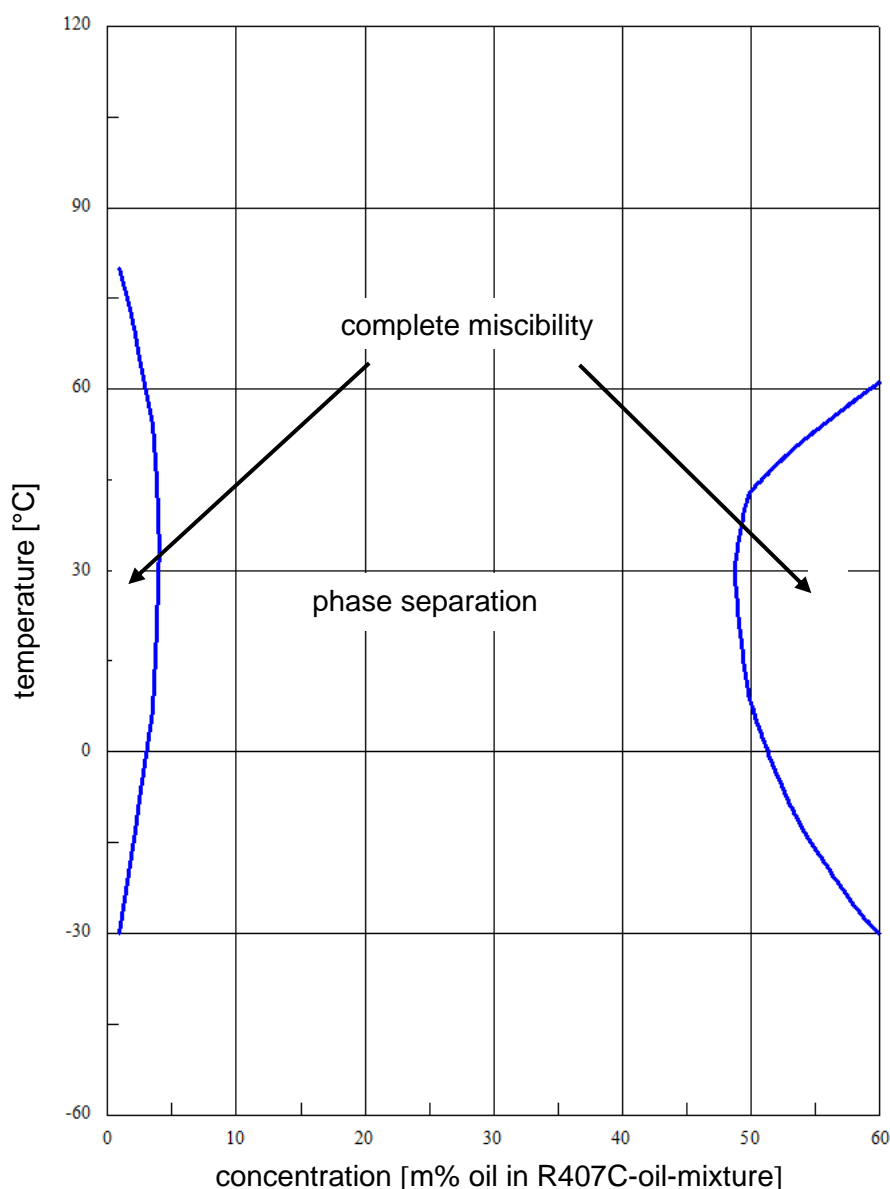
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### Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R407C



PI 4-1327, Page 21; PM 4 / 09.21

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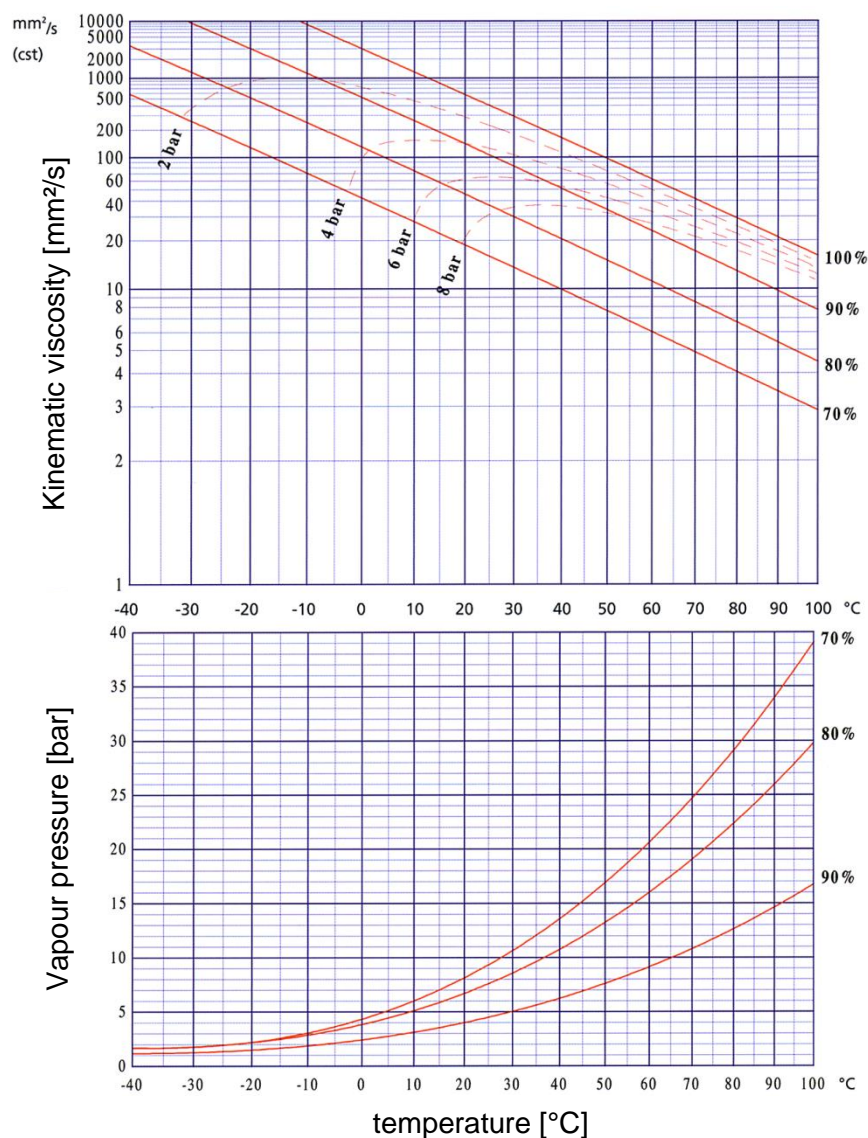
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### Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R407C



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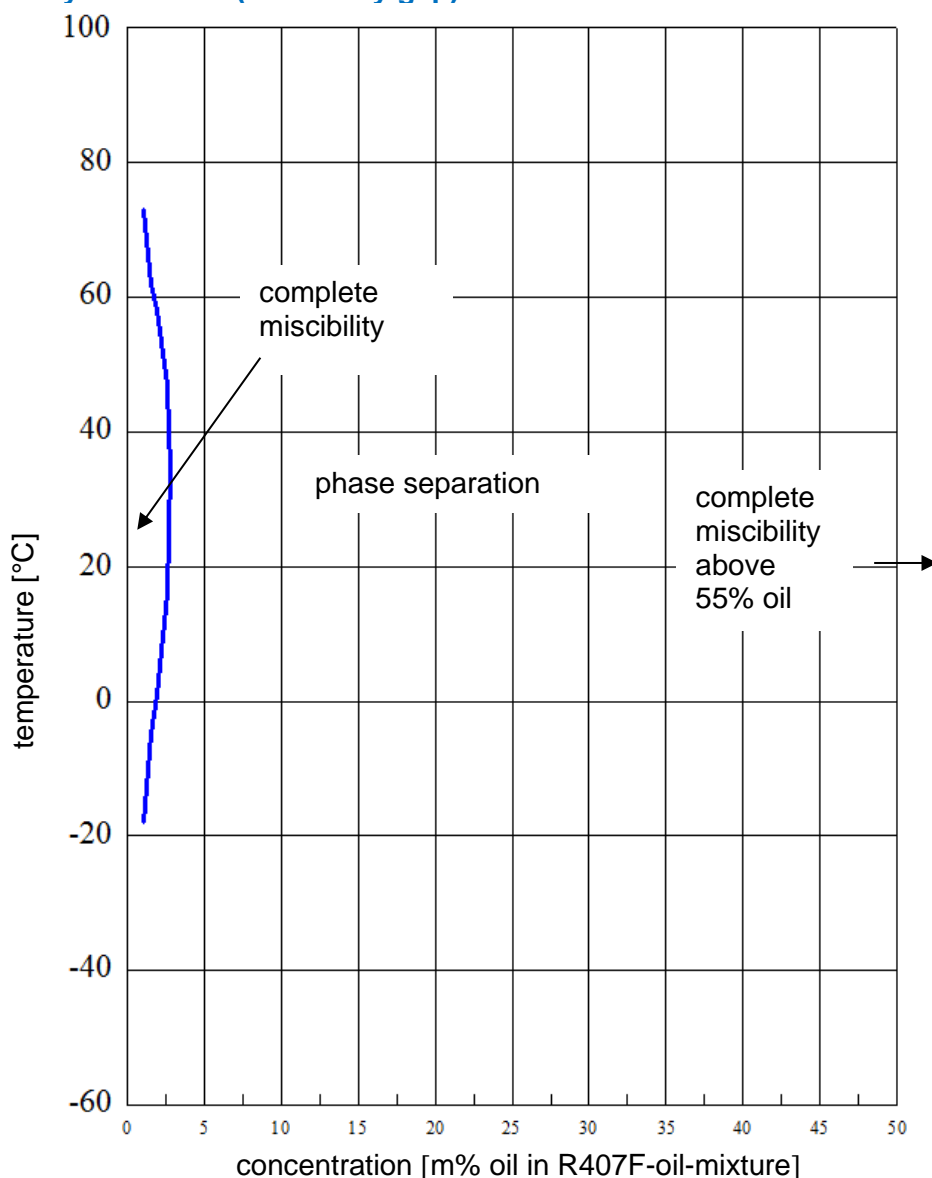
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Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R407F



PI 4-1327, Page 23; PM 4 / 09.21

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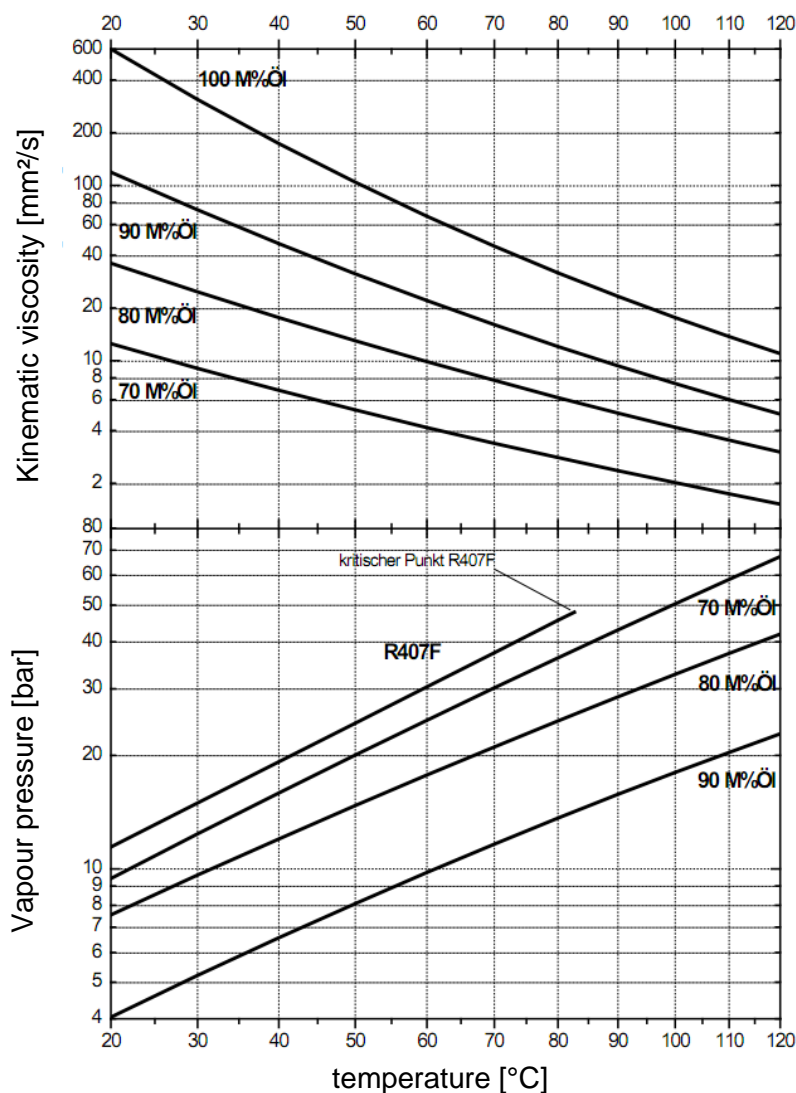
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R407F



All % figures represent m% oil in the refrigerant-oil-mixture.

PI 4-1327, Page 24; PM 4 / 09.21

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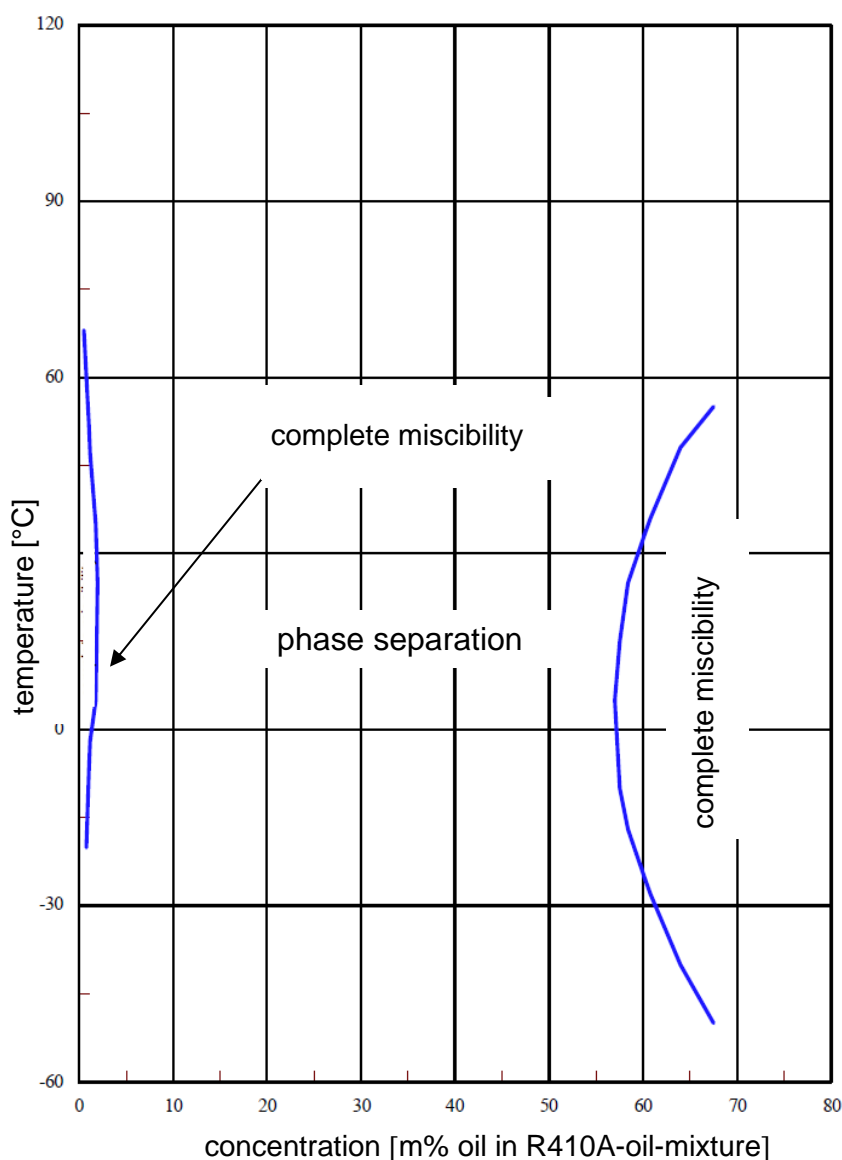
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

### Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R410A



PI 4-1327, Page 25; PM 4 / 09.21

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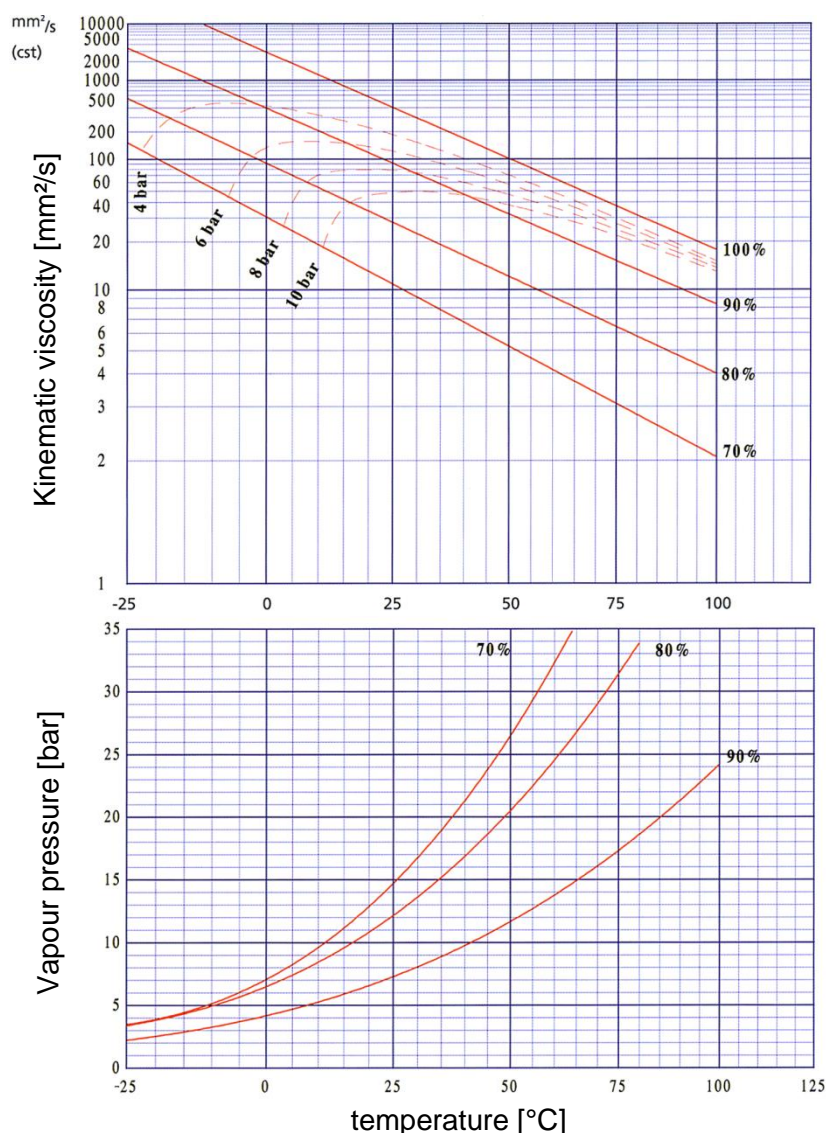
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

### Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R410A



All % figures represent m% oil in the refrigerant-oil-mixture.

PI 4-1327, Page 26; PM 4 / 09.21

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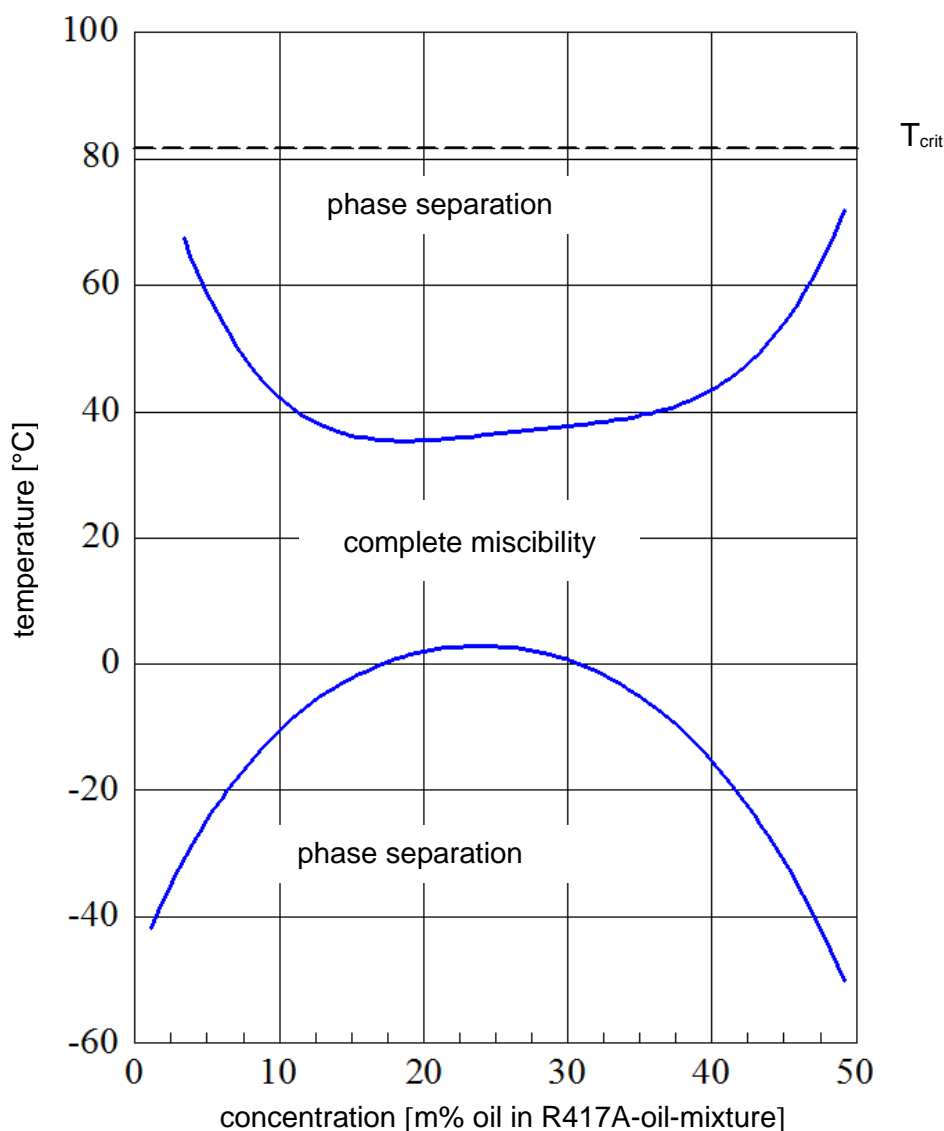
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R417A



PI 4-1327, Page 27; PM 4 / 09.21

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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R427A



PI 4-1327, Page 28; PM 4 / 09.21

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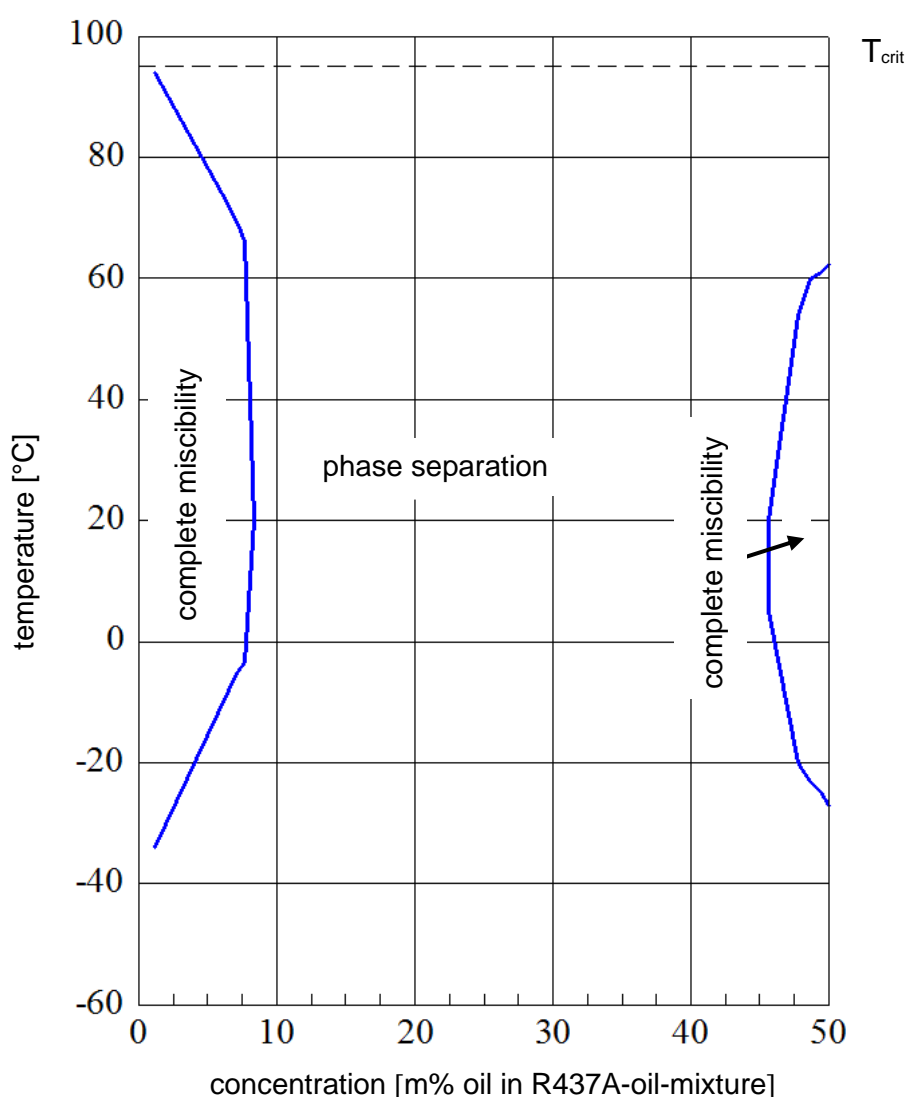
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R437A



PI 4-1327, Page 29; PM 4 / 09.21

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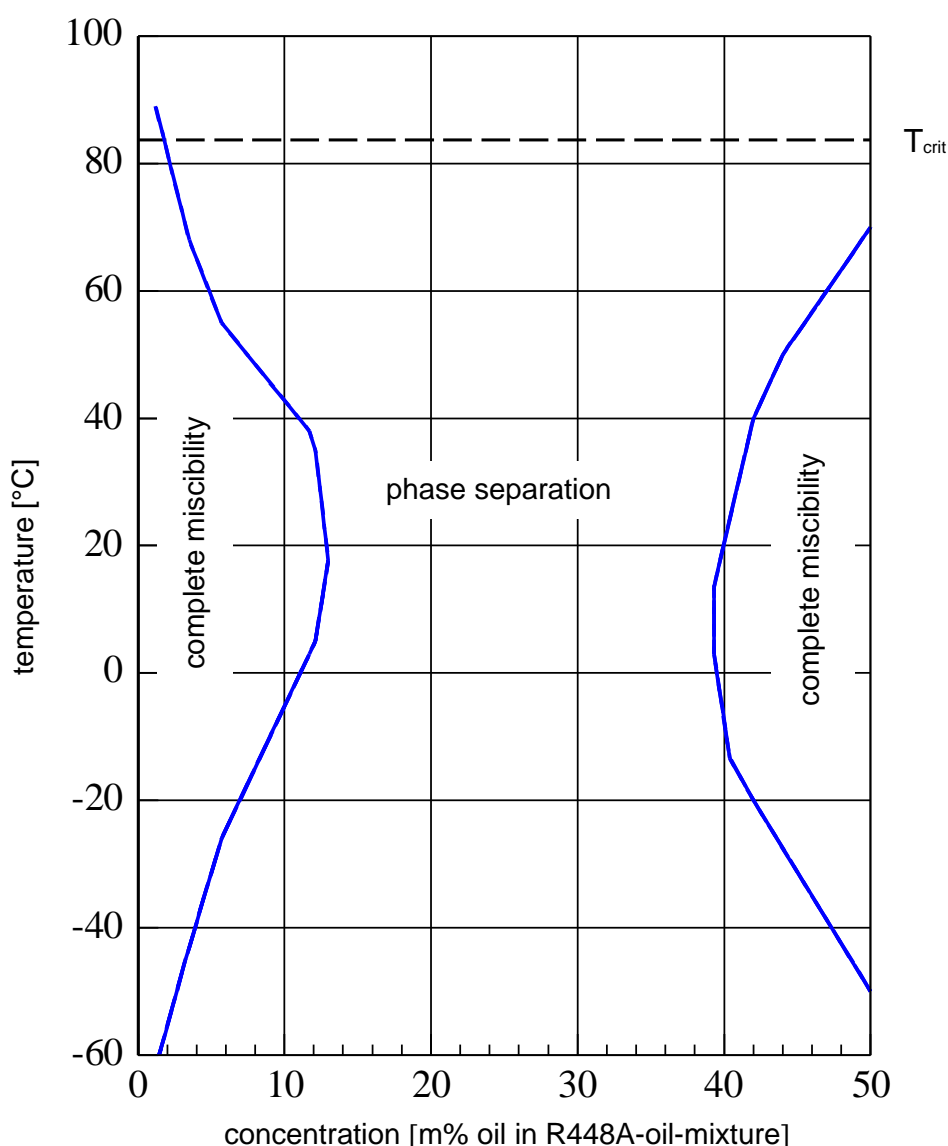
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R448A



PI 4-1327, Page 30; PM 4 / 09.21

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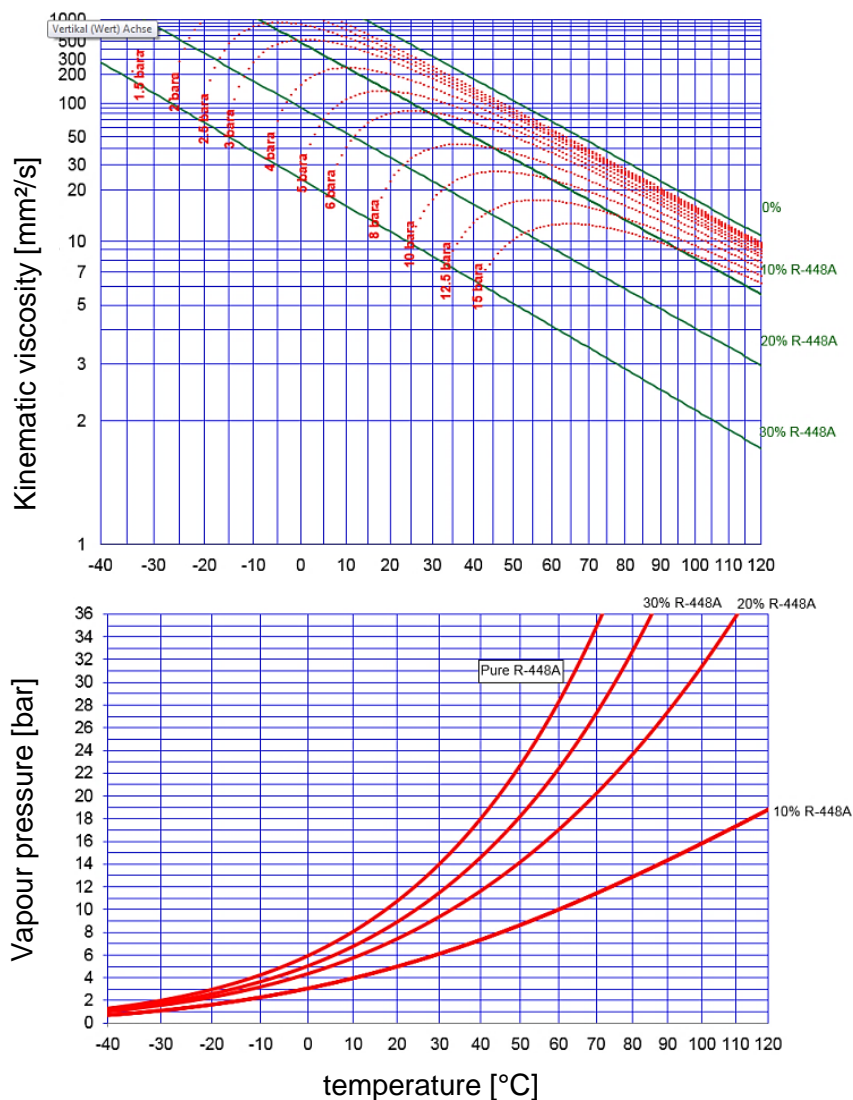
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R448A



All % figures represent m% refrigerant in the refrigerant-oil-mixture.

PI 4-1327, Page 31; PM 4 / 09.21

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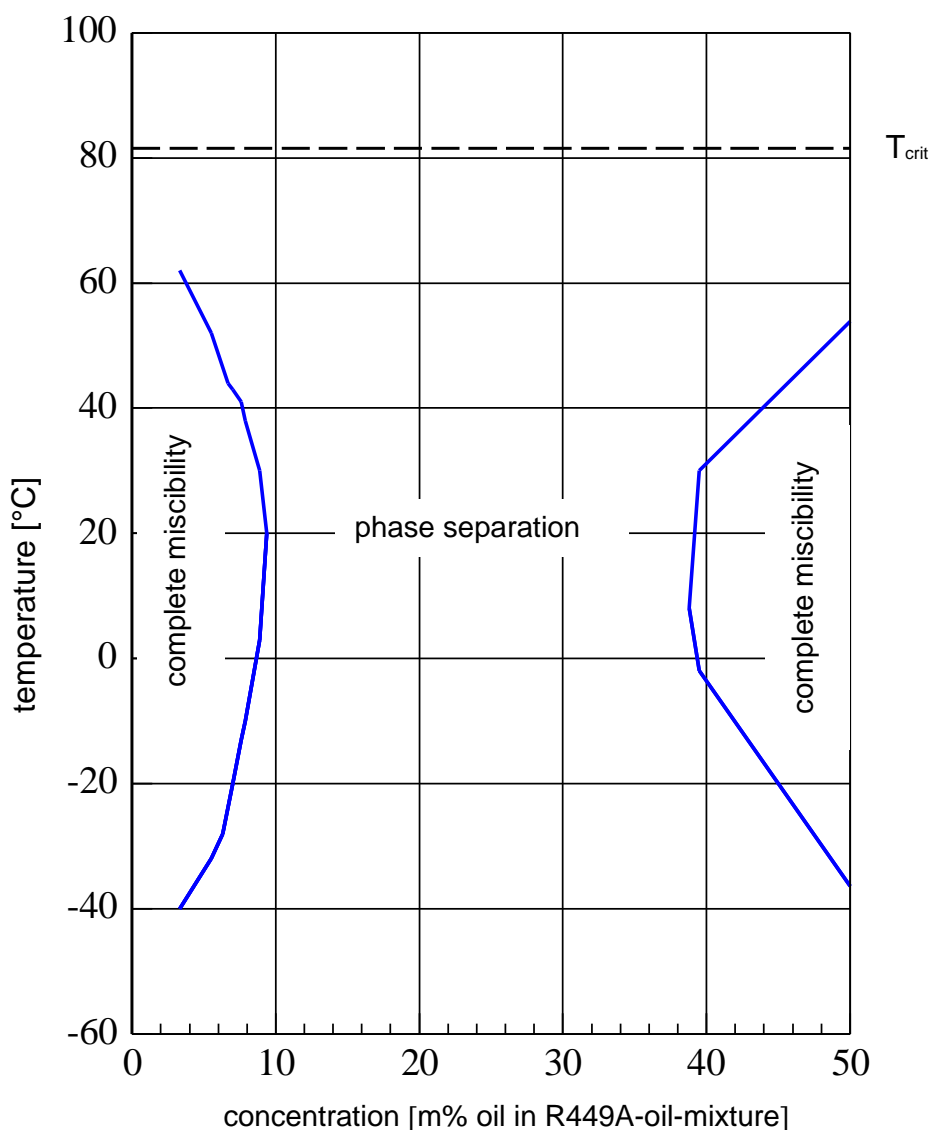
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R449A



PI 4-1327, Page 32; PM 4 / 09.21

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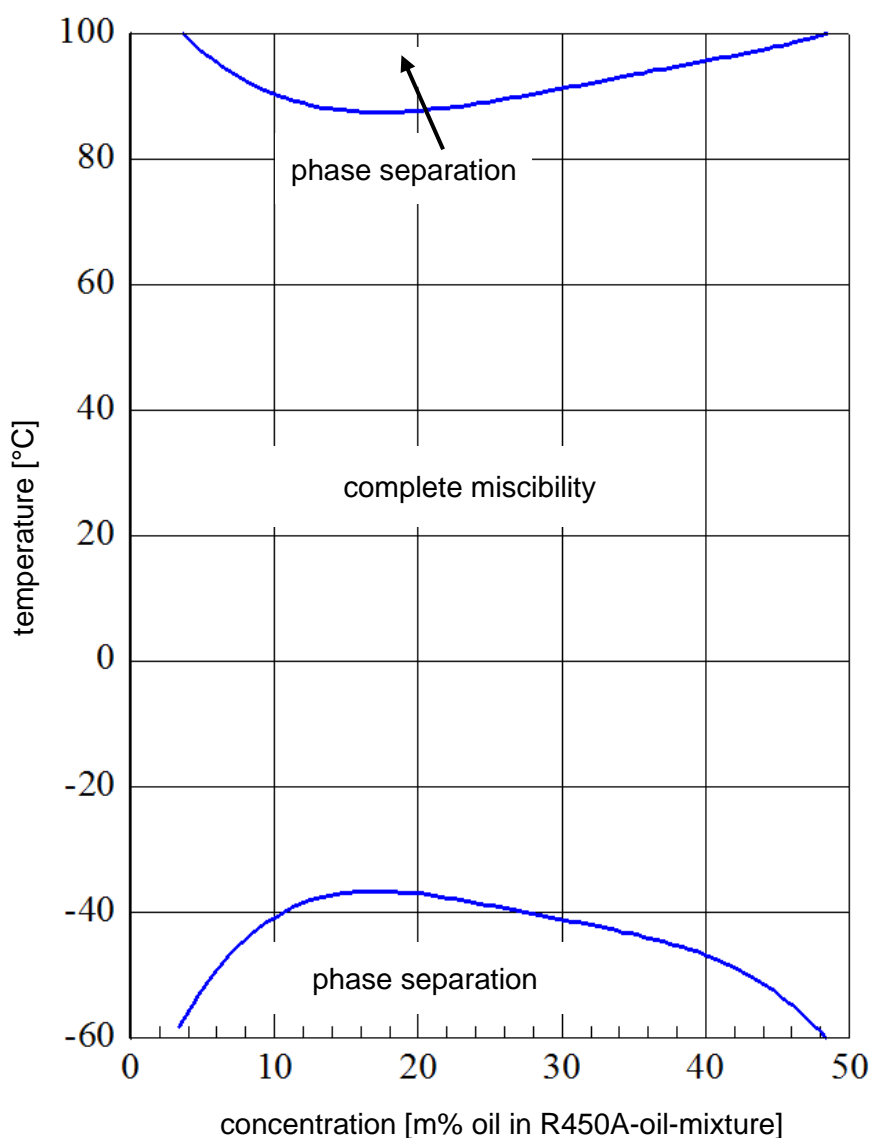
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R450A



PI 4-1327, Page 33; PM 4 / 09.21

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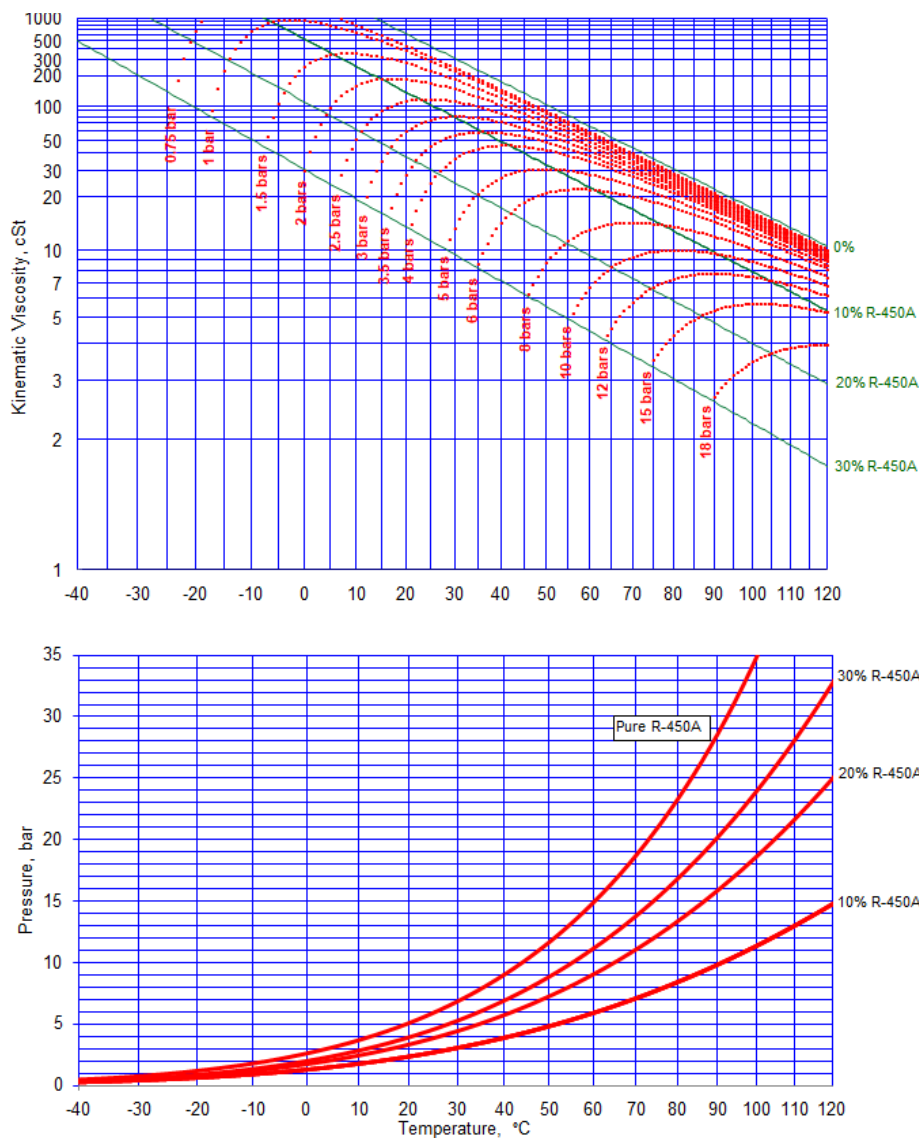
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R450A



All % figures represent m% refrigerant in the refrigerant-oil-mixture.

PI 4-1327, Page 34; PM 4 / 09.21

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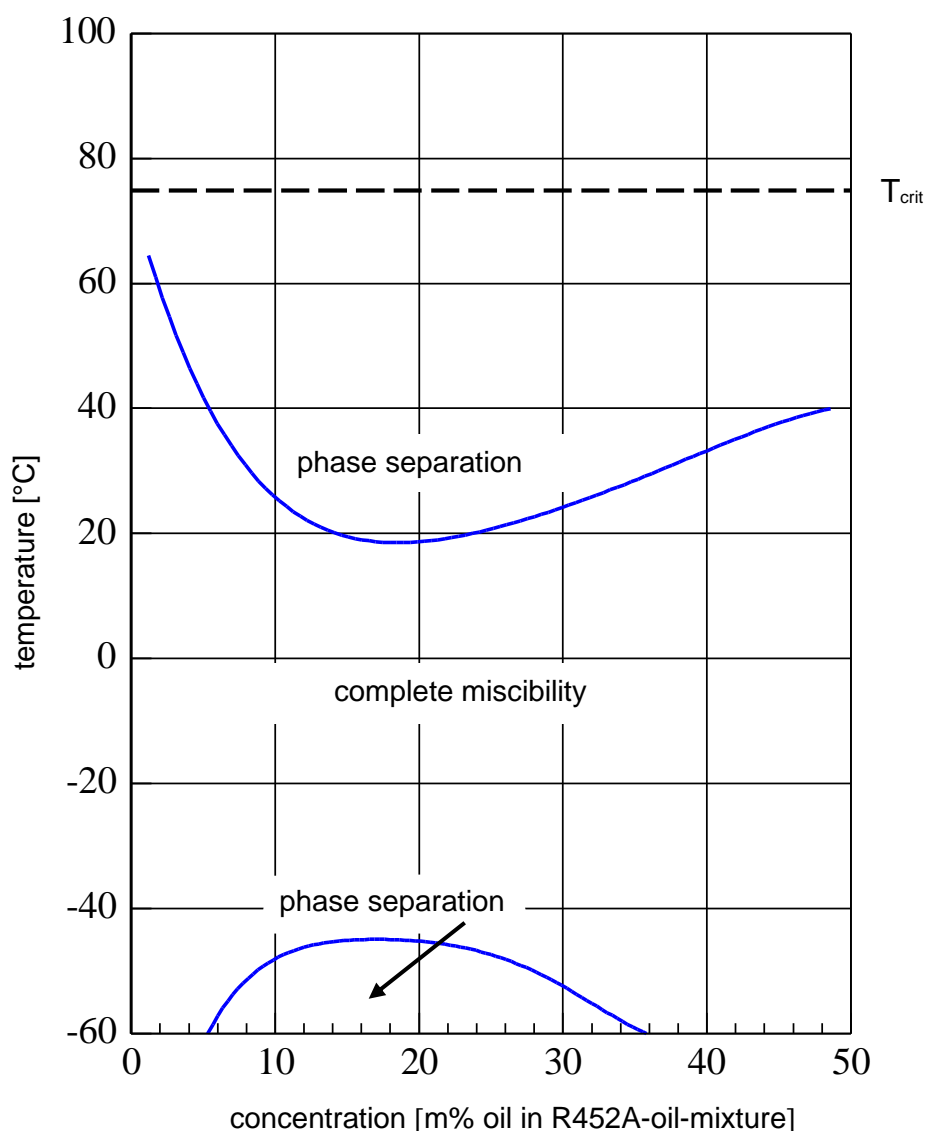
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R452A



PI 4-1327, Page 35; PM 4 / 09.21

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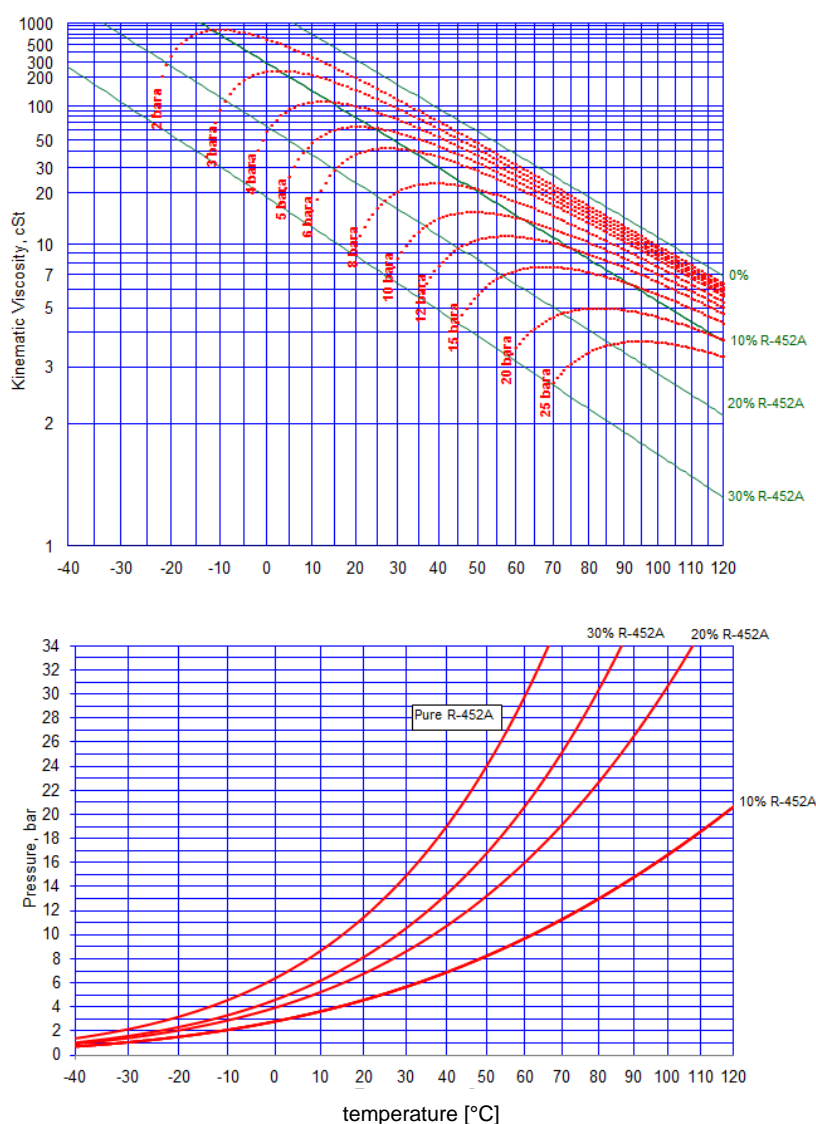
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R452A



All % figures represent m% refrigerant in the refrigerant-oil-mixture.

PI 4-1327, Page 36; PM 4 / 09.21

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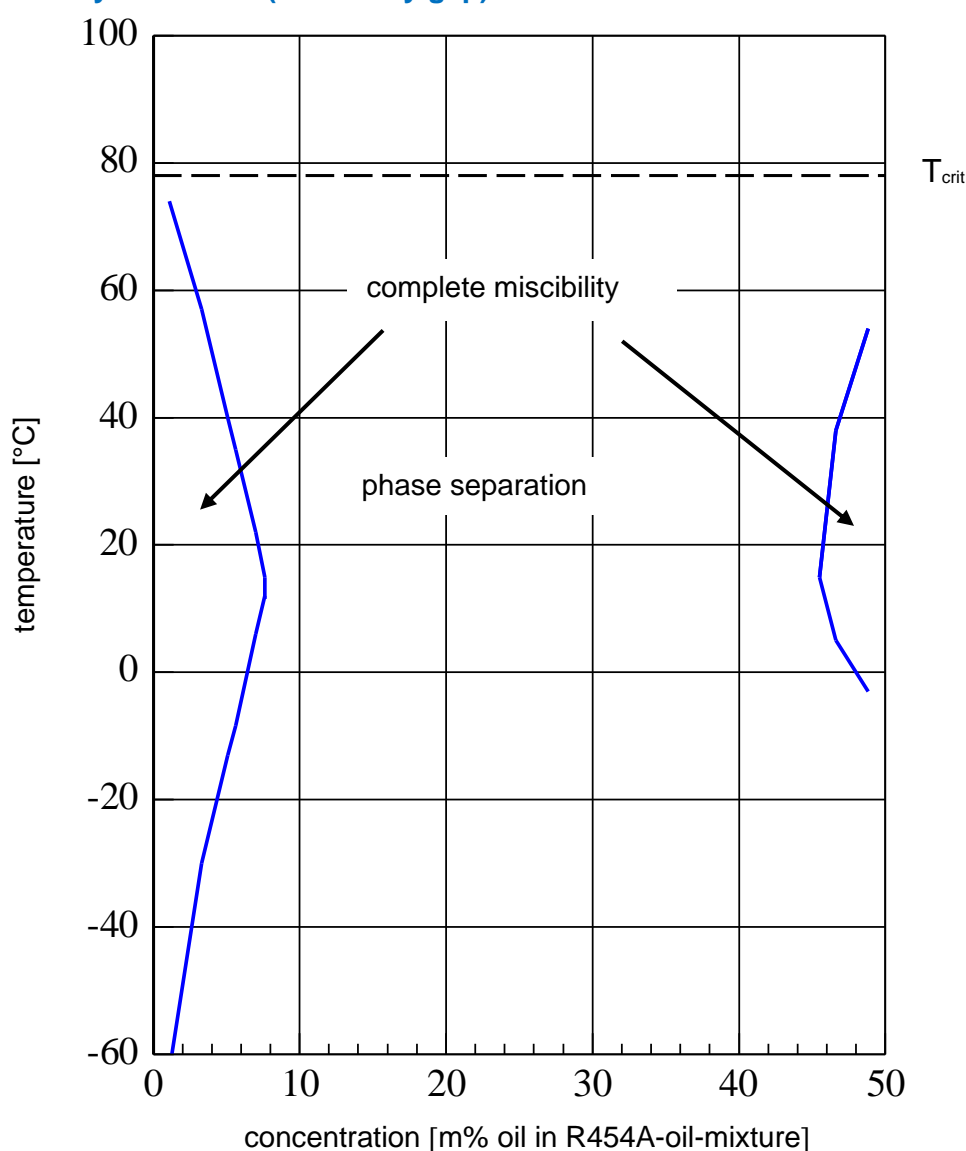
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

### Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R454A



PI 4-1327, Page 37; PM 4 / 09.21

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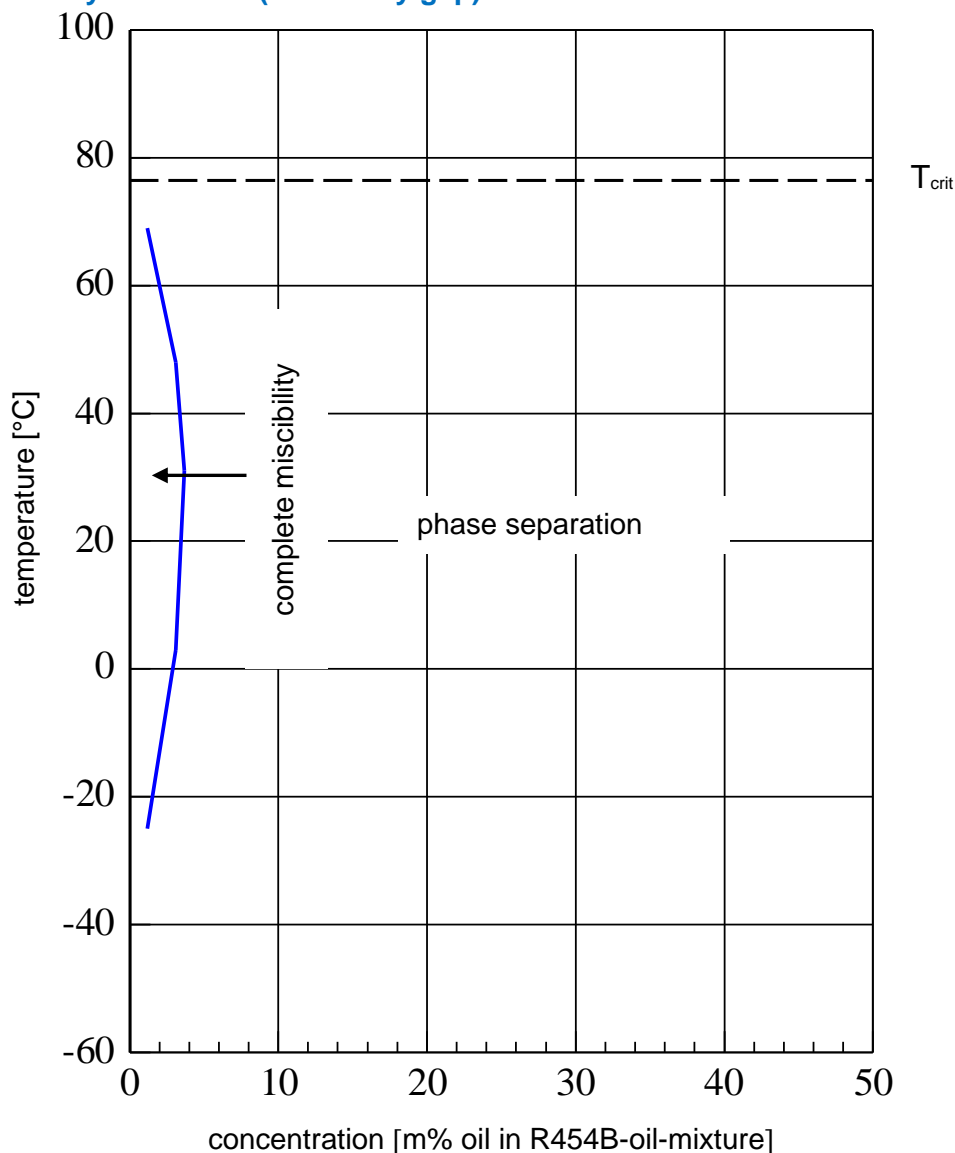
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R454B



PI 4-1327, Page 38; PM 4 / 09.21

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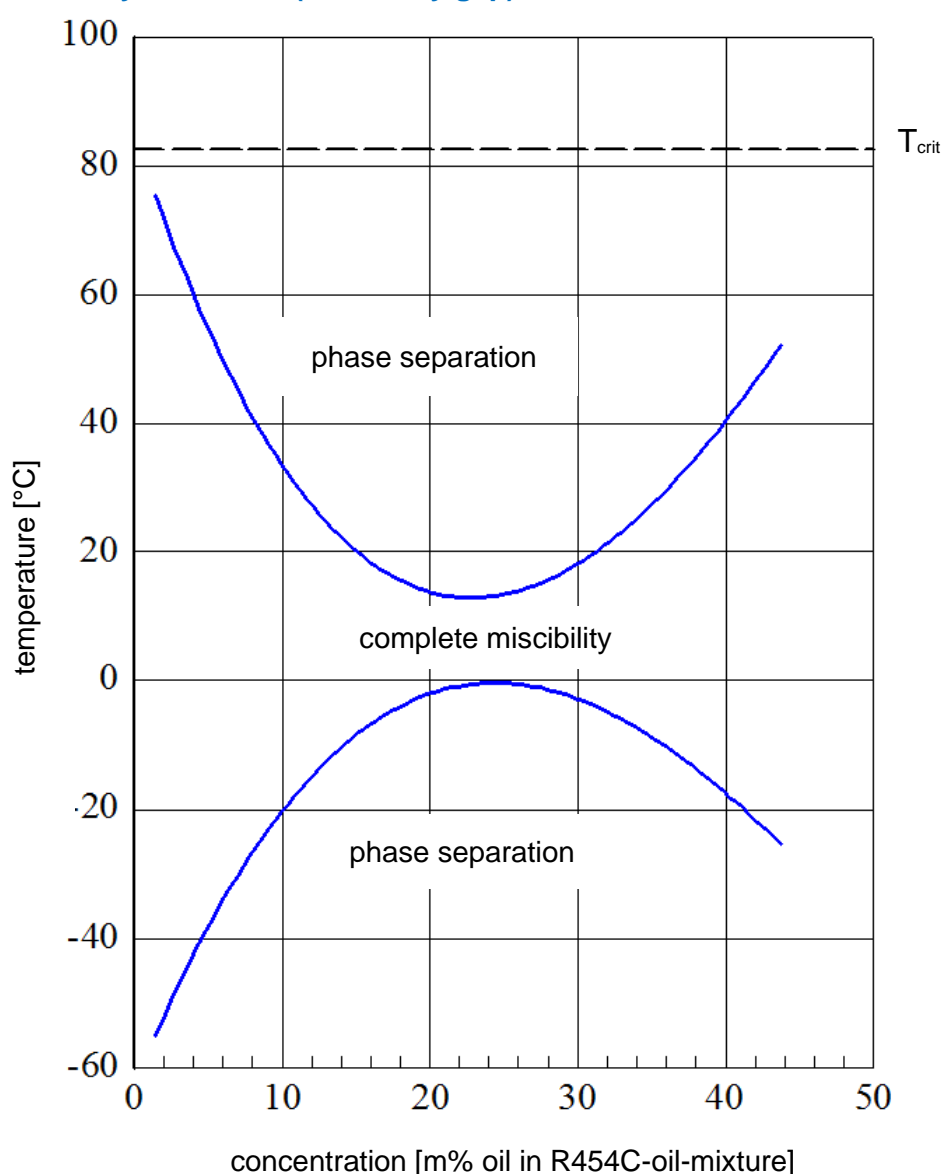
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## RENISO TRITON SE 170

**Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.**

**Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R454C**



PI 4-1327, Page 39; PM 4 / 09.21

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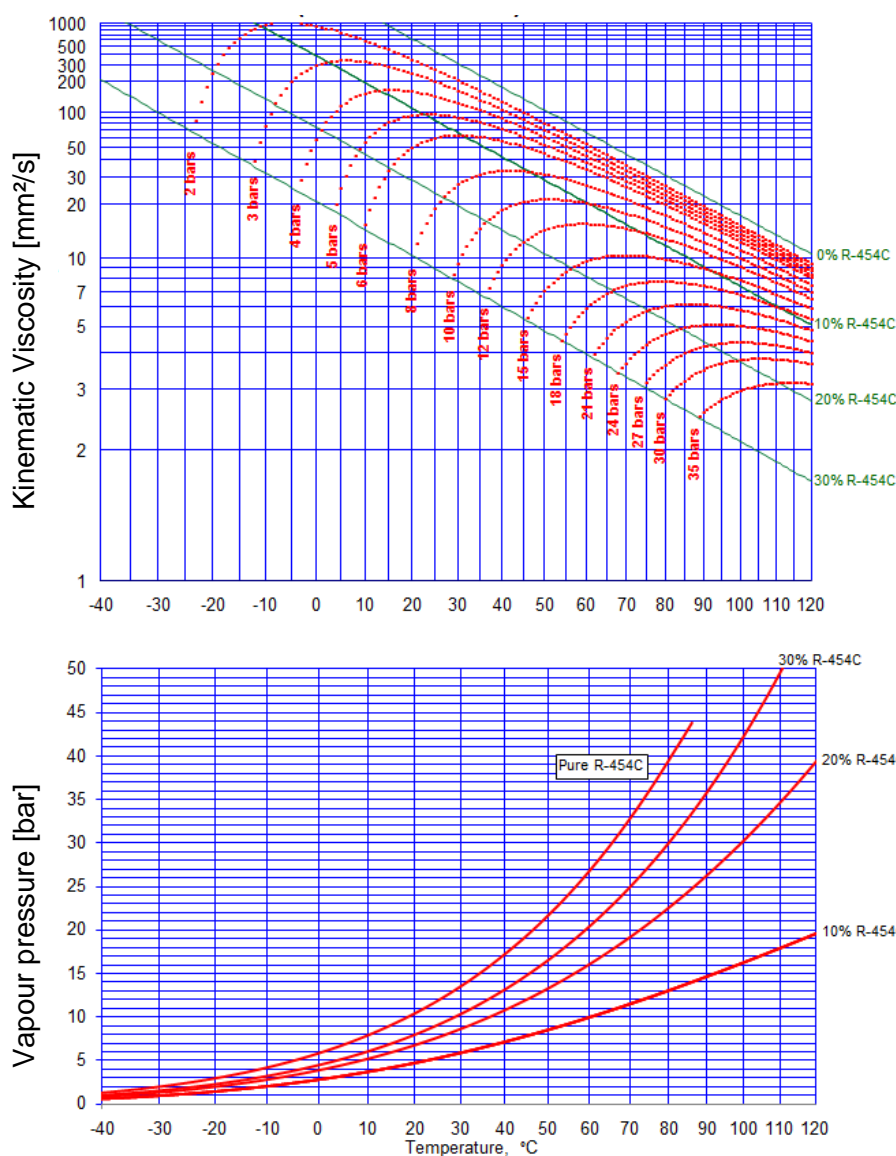
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

**Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R454C**



All % figures represent m% refrigerant in the refrigerant-oil-mixture.

PI 4-1327, Page 40; PM 4 / 09.21

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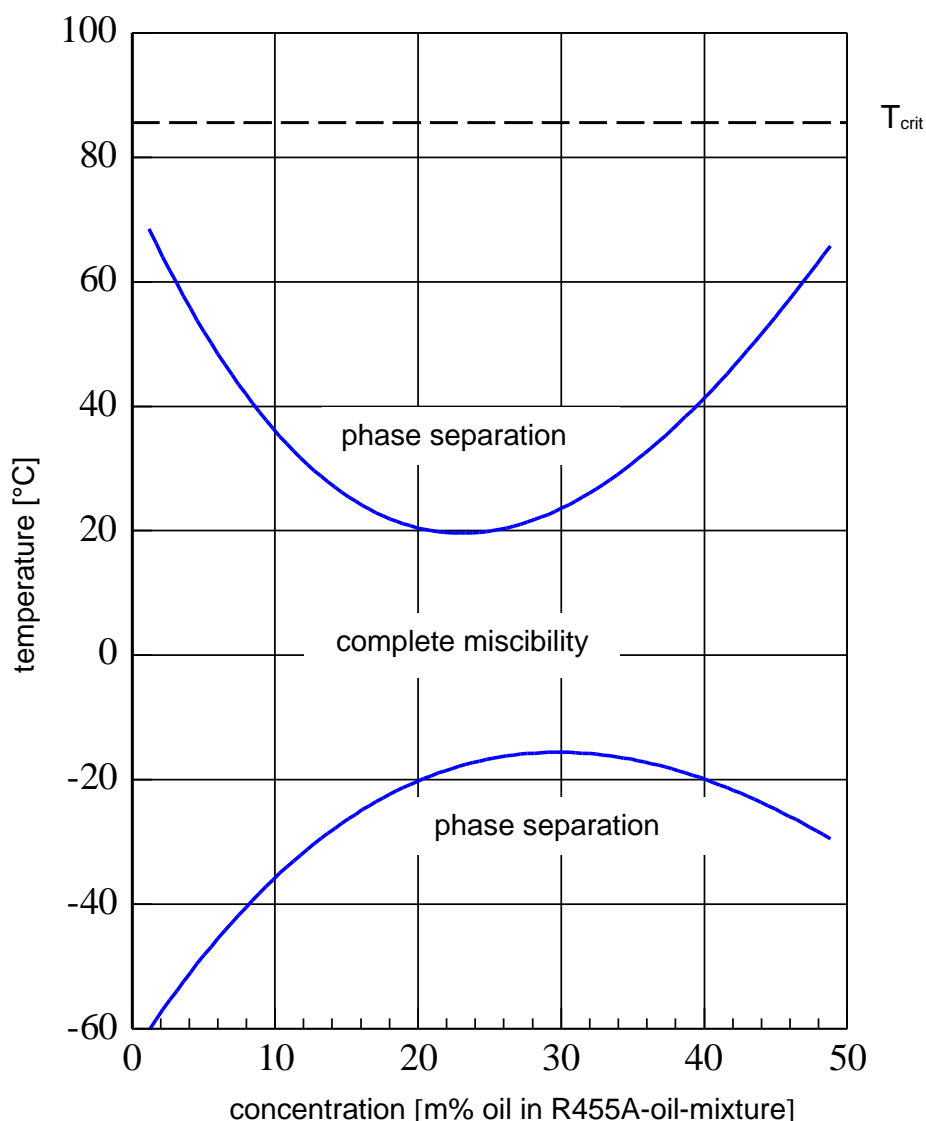
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## RENISO TRITON SE 170

**Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.**

### Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R455A



e 41; PM 4 / 09.21

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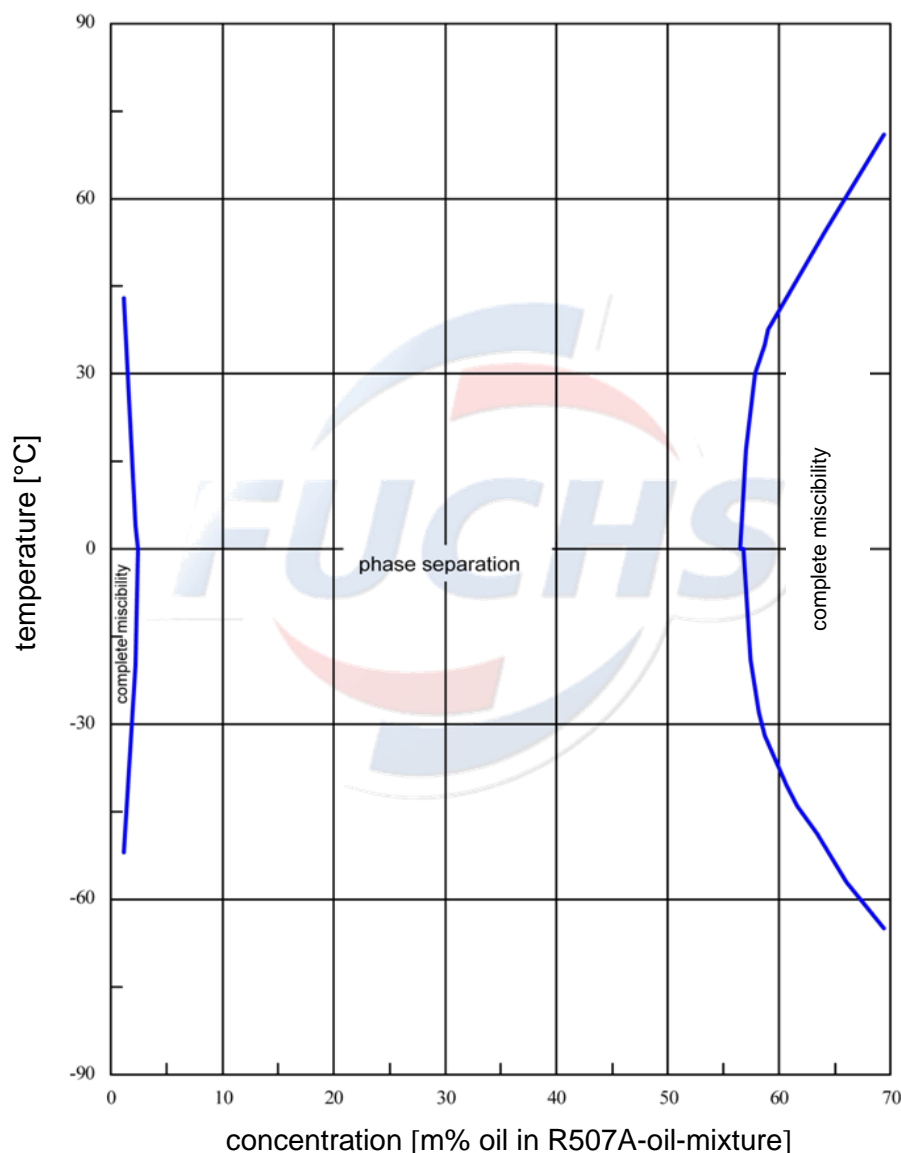
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R507A



PI 4-1327, Page 42; PM 4 / 09.21

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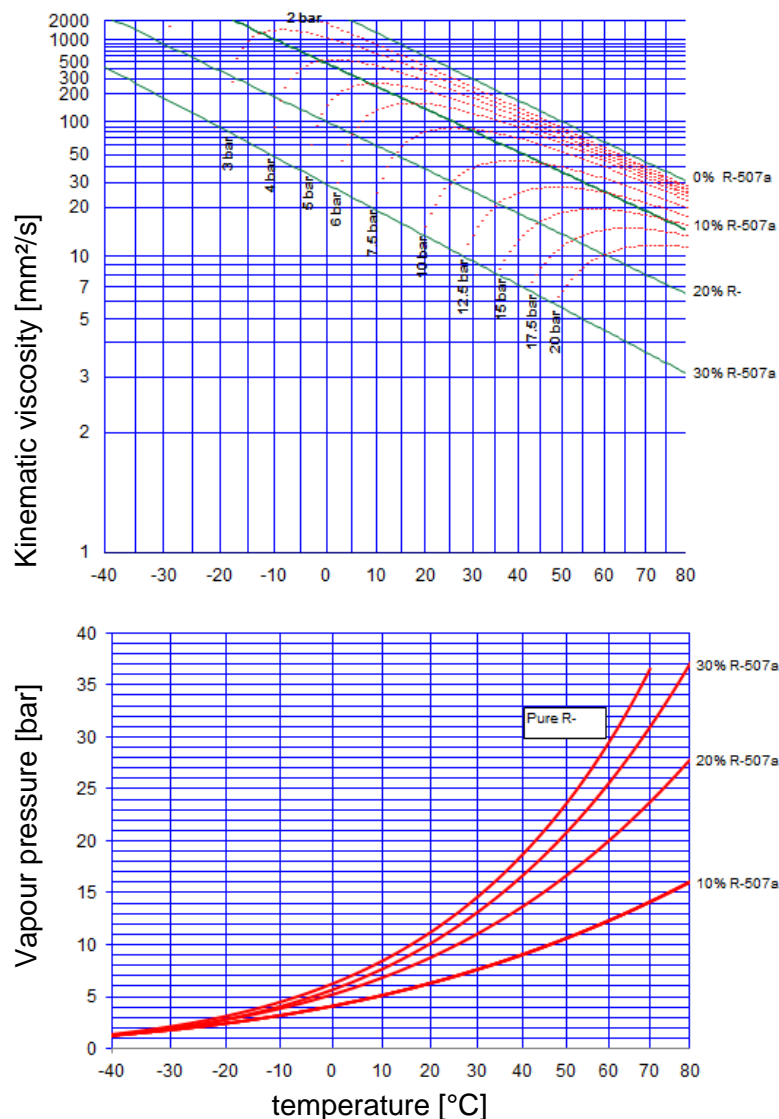
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

**Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R507A**



All % figures represent m% refrigerant in the refrigerant-oil-mixture.

PI 4-1327, Page 43; PM 4 / 09.21

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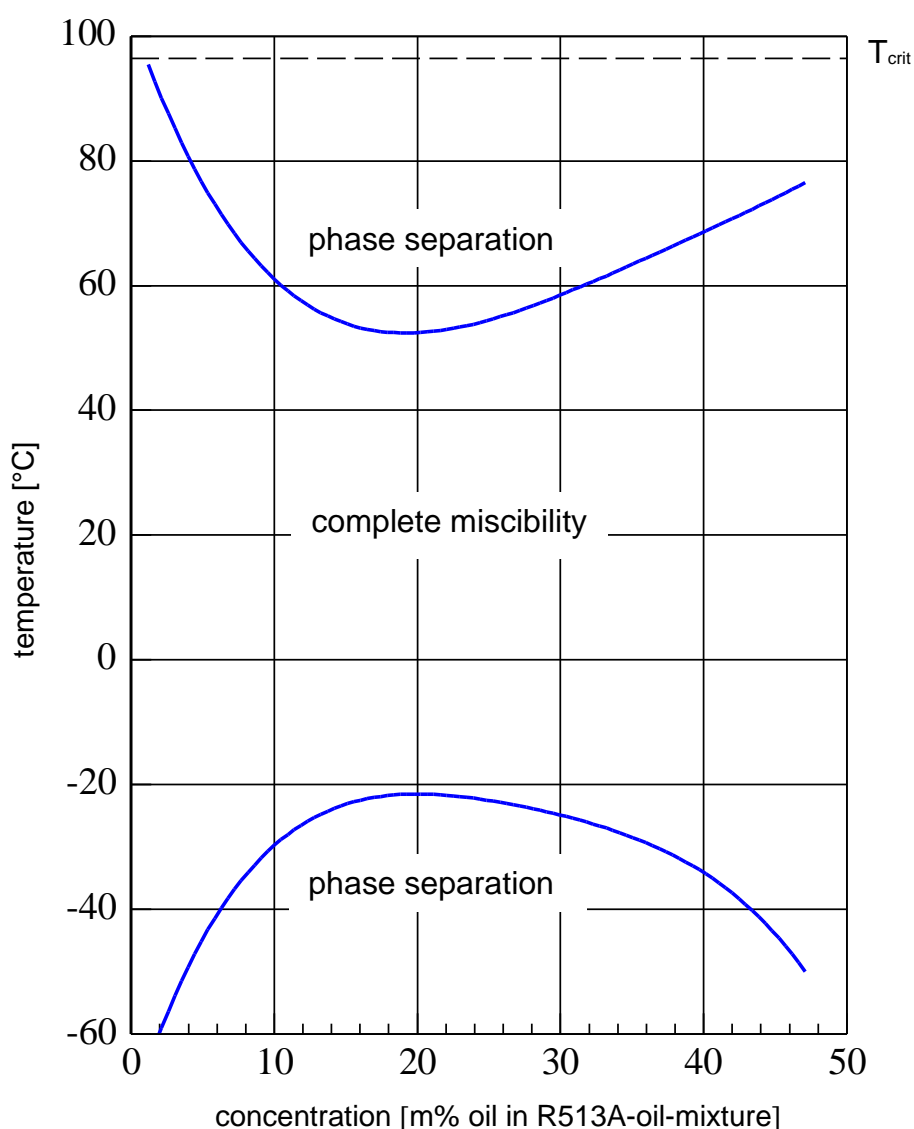
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## RENISO TRITON SE 170

**Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.**

**Miscibility behaviour (miscibility gap): RENISO TRITON SE 170 and R513A**



PI 4-1327, Page 44; PM 4 / 09.21

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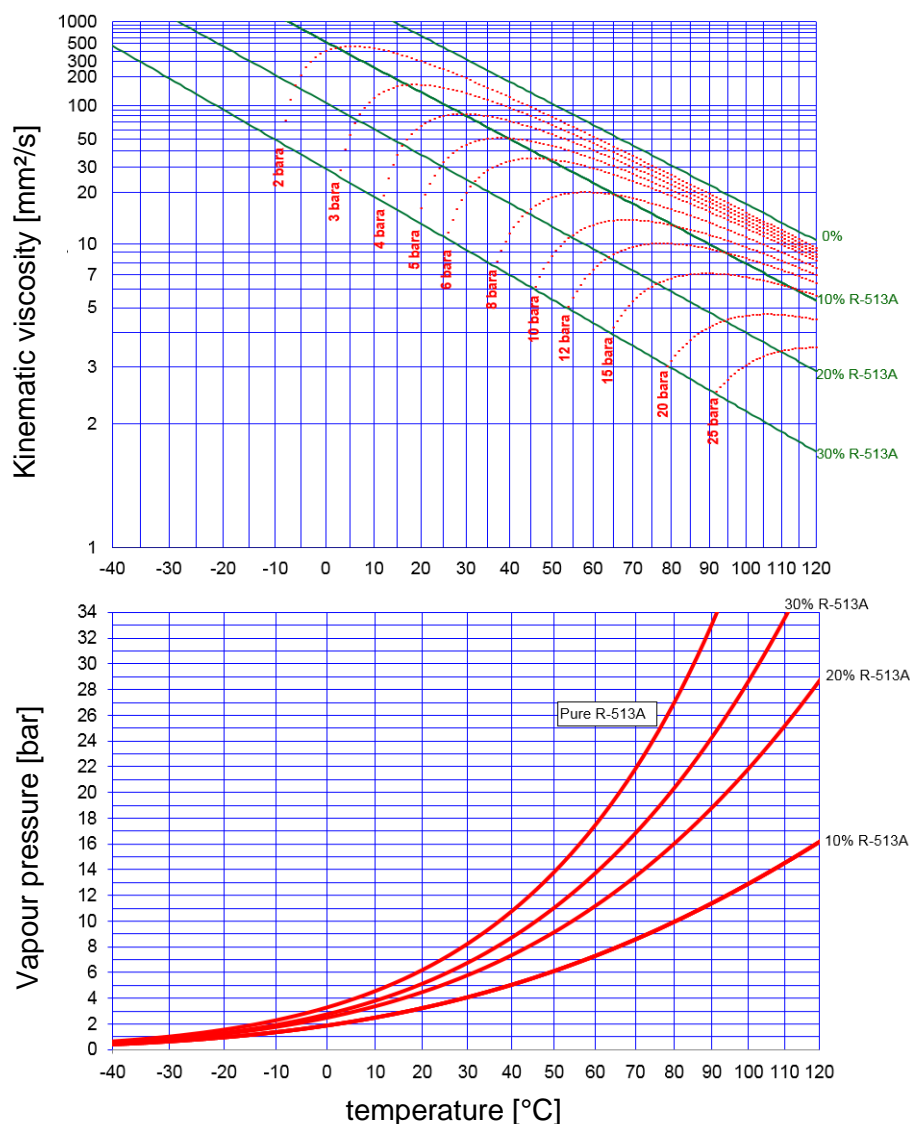
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## RENISO TRITON SE 170

Synthetic refrigeration oil based on polyol esters (POE) for HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

### Kinematic viscosity and vapour pressure: RENISO TRITON SE 170 and R513A



All % figures represent m% refrigerant in the refrigerant-oil-mixture.

PI 4-1327, Page 45; PM 4 / 09.21

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