

## RENISO TRITON SE 55

### 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 55 is based on synthetic polyol ester that were especially developed for use with chlorine-free, fluorinated hydrocarbons. RENISO TRITON SE 55 refrigeration oil is miscible and compatible with HFC/FC and HFO refrigerants – including HFO/HFC refrigerant blends.

#### Application

The RENISO TRITON SE 55 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 55 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 55 is especially suitable for deep-freeze systems operating with R23.

RENISO TRITON SE 55 product is also suitable for hydrocarbon refrigerants (e.g. propane, polypropylene, isobutane) and R22. If RENISO TRITON SE 55 is used with the above mentioned HC refrigerant its recommend to contact the FUCHS application engineers.

#### Specifications

RENISO TRITON SE 55 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**
- **Readily biodegradable**
- **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 55 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 55	
Properties	Unit		Test method
Density at 15 °C	kg/m <sup>3</sup>	1009	DIN 51757
Flash point	°C	286	DIN ISO 2592
Colour	-	0.5	DIN ISO 2049
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	55	DIN EN ISO 3104
at 100 °C	mm <sup>2</sup> /s	8.8	
Viscosity index	-	137	DIN ISO 2909
Pourpoint	°C	-48	DIN ISO 3016
Neutralisation number	mgKOH/g	0.03	DIN 51558-1
Water content	mg/kg	< 50	DIN 51777-2
Rapidly biodegradable	-	yes	OECD 301 B

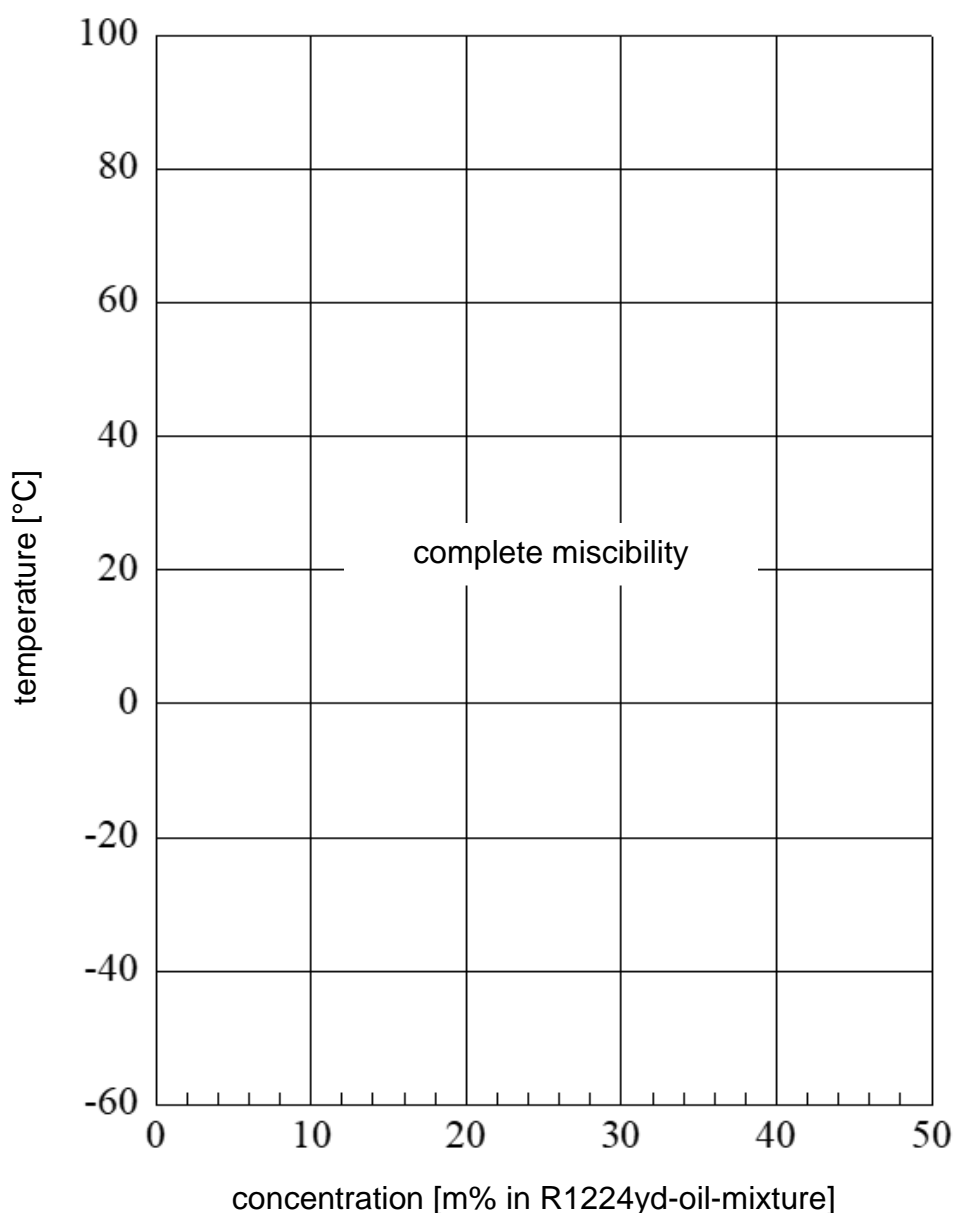
### Specifications

NSF H2 registration:  
registration no. 146754

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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 55 and R1224yd**



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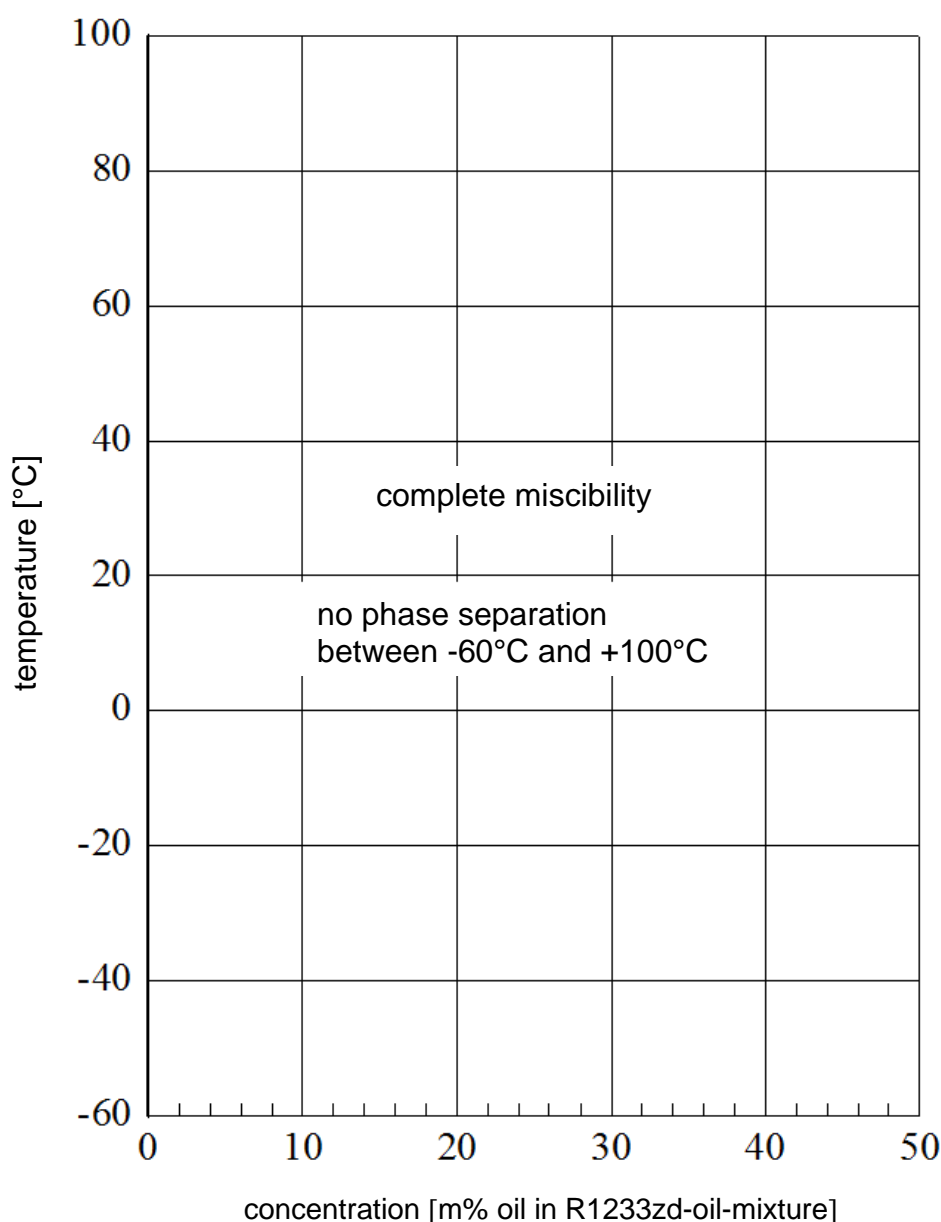
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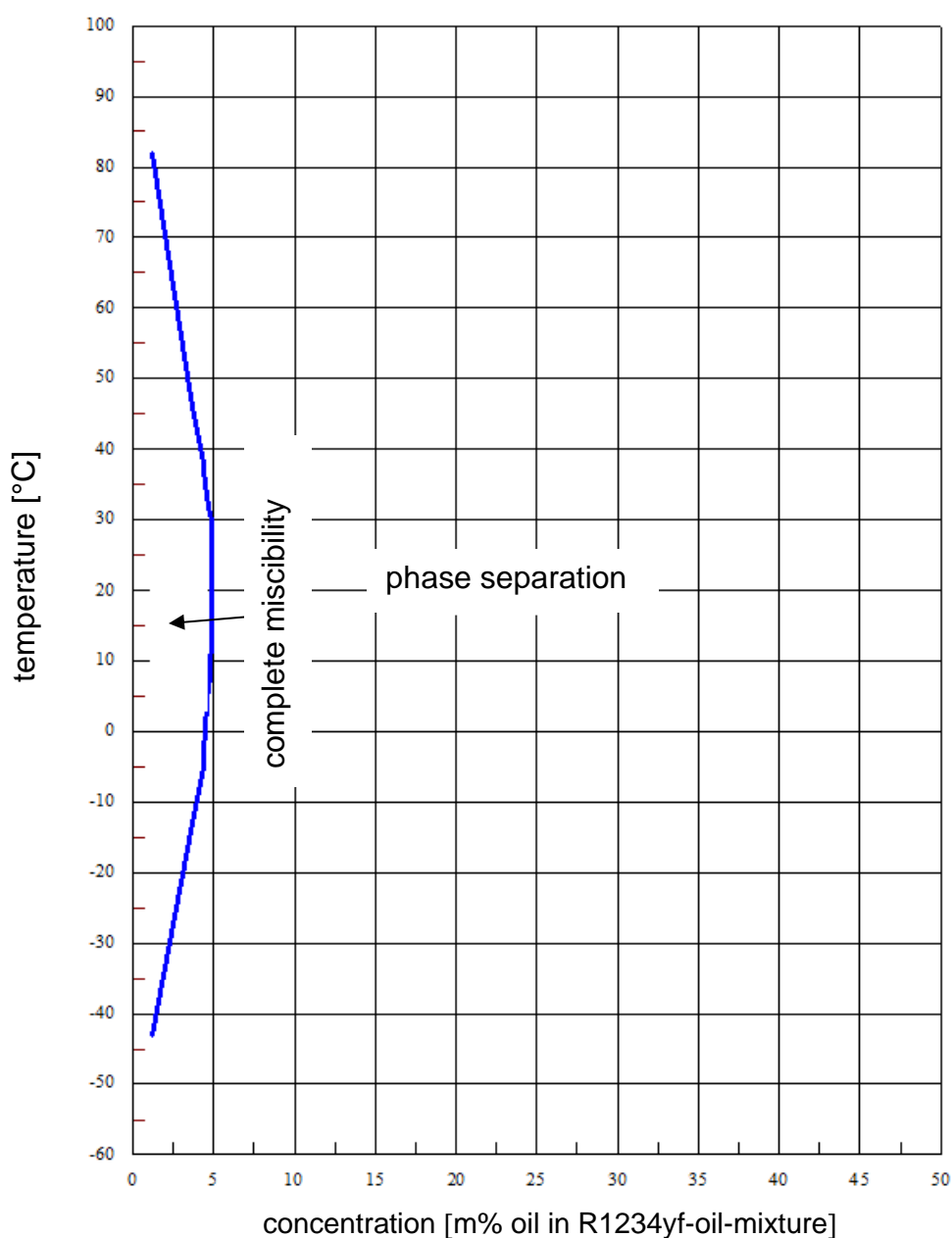
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R1234yf**



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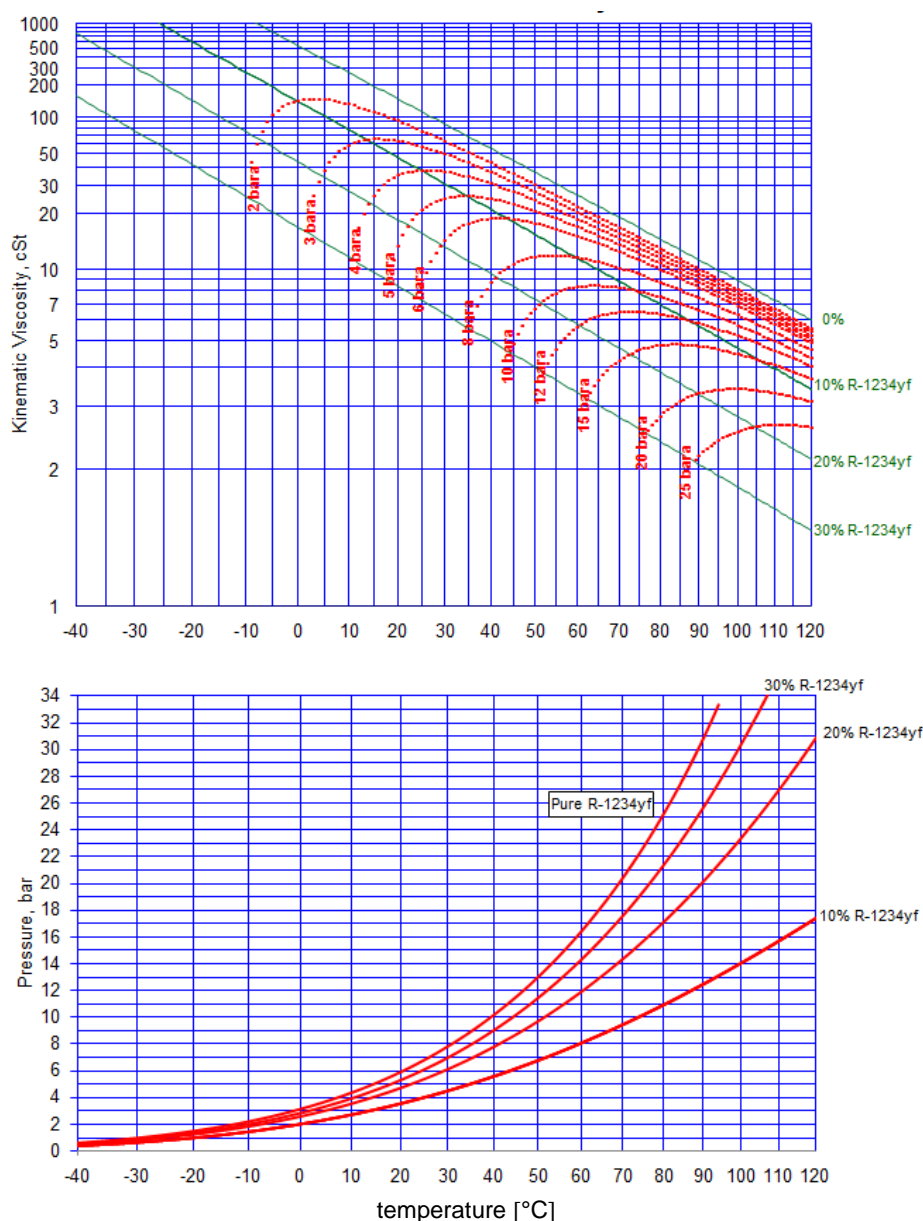
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Kinematic viscosity and vapour pressure: RENISO TRITON SE 55 and R1234yf



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

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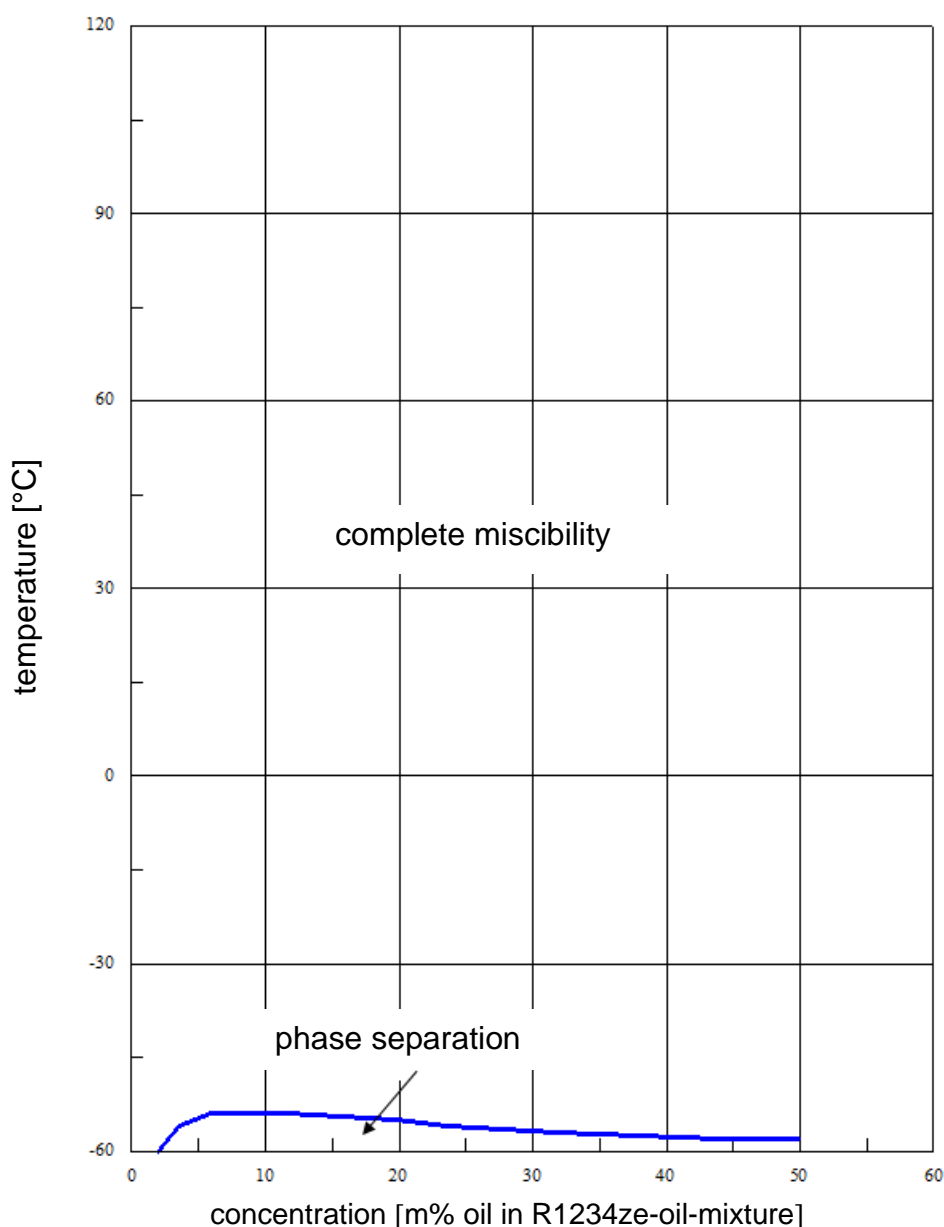
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R1234ze**



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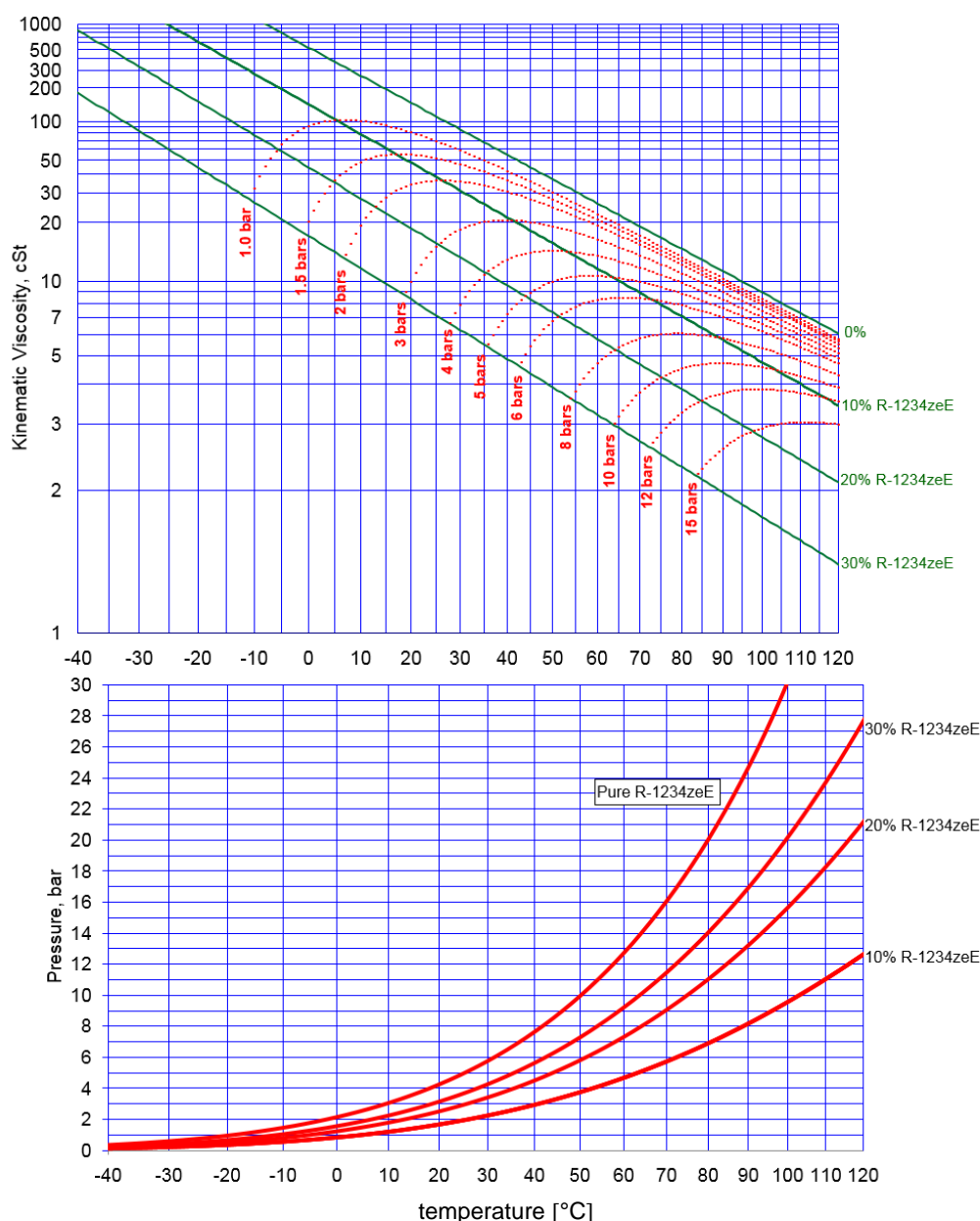
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**Kinematic viscosity and vapour pressure: RENISO TRITON SE 55 and R1234ze**



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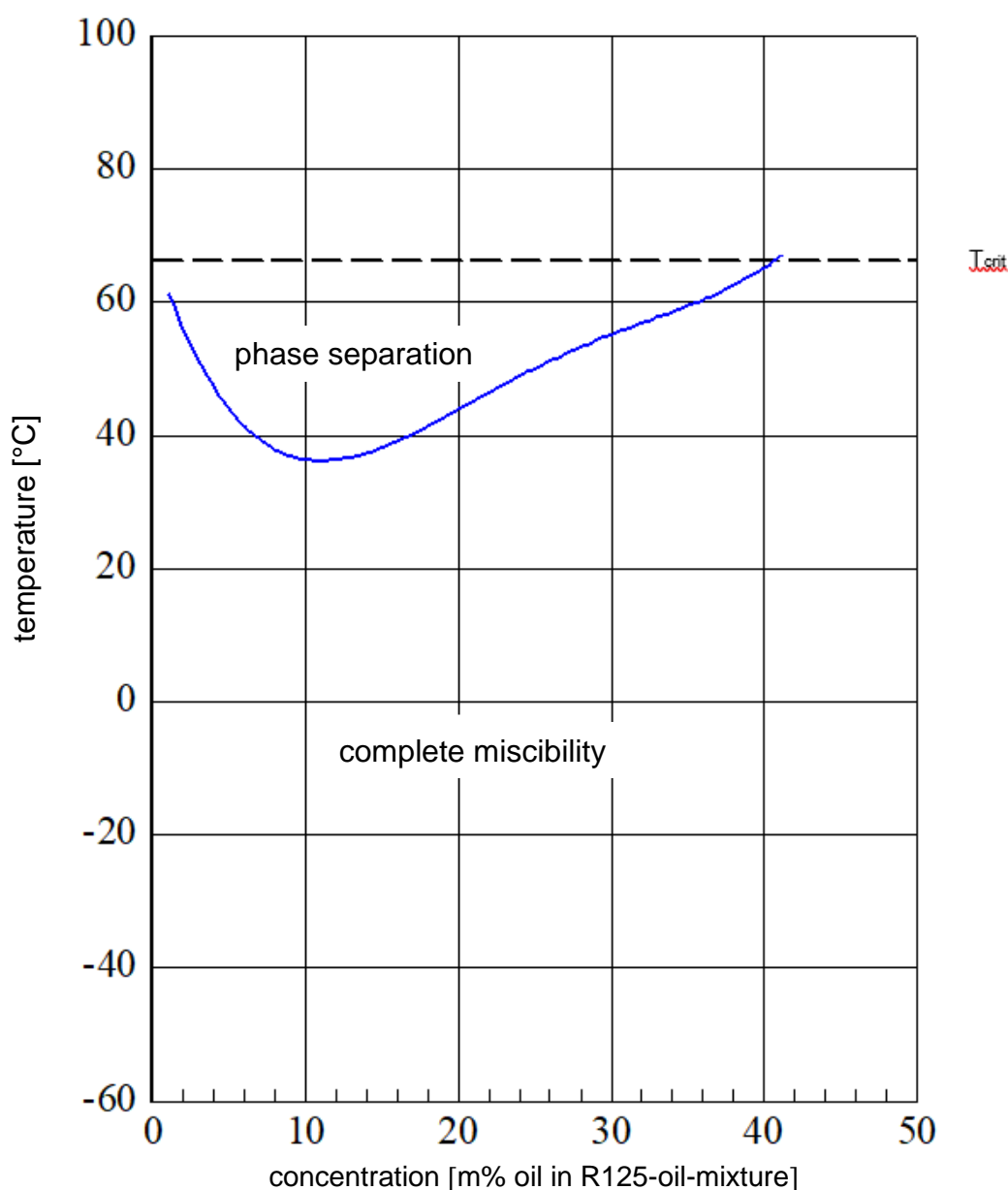
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R125**



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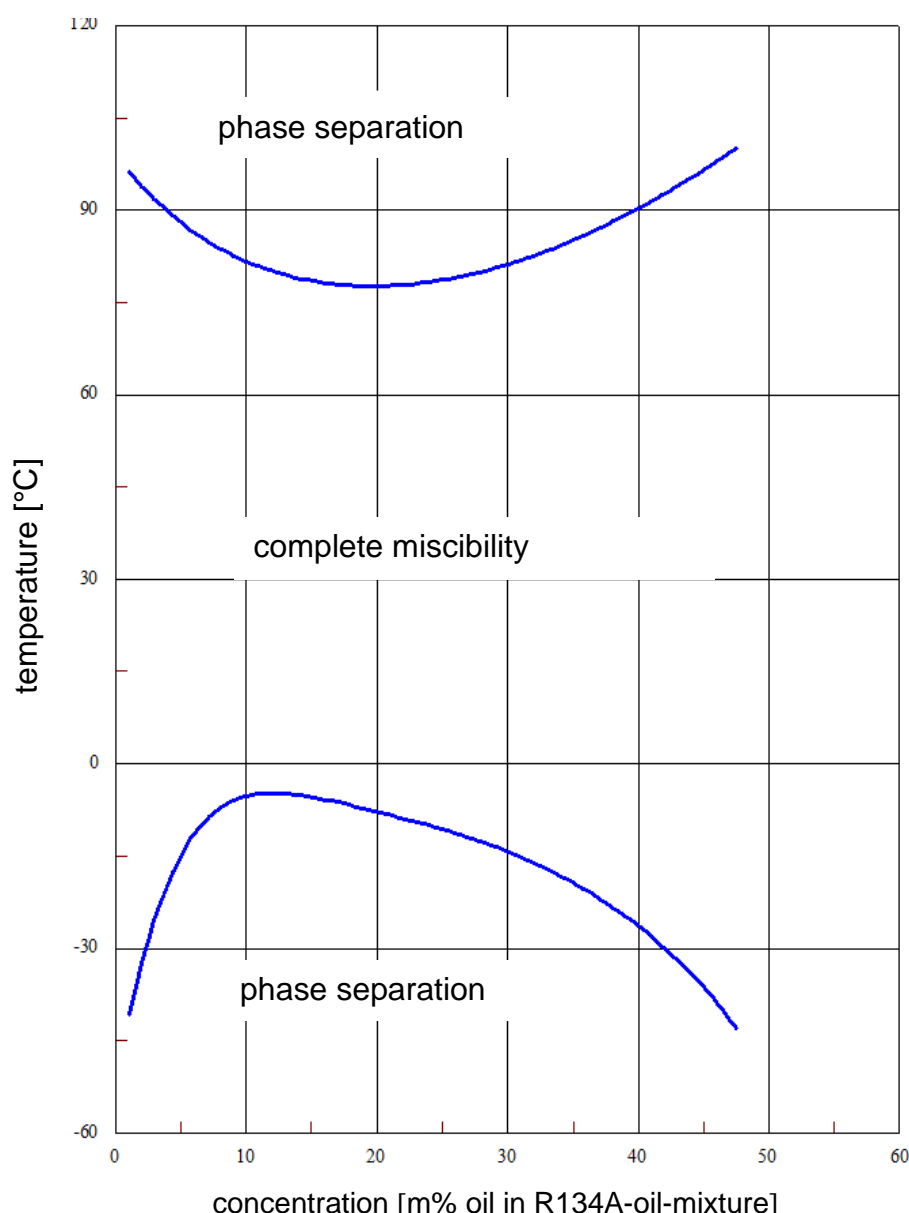
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R134A**



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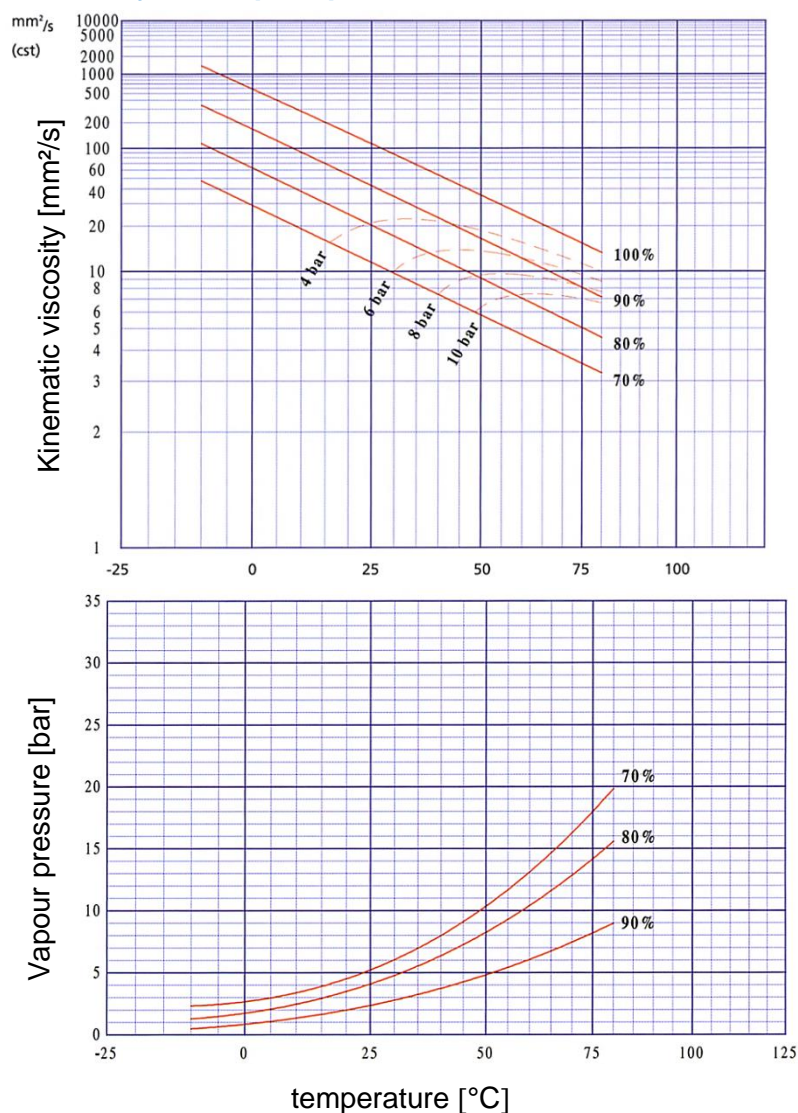
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### Kinematic viscosity and vapour pressure: RENISO TRITON SE 55 and R134A

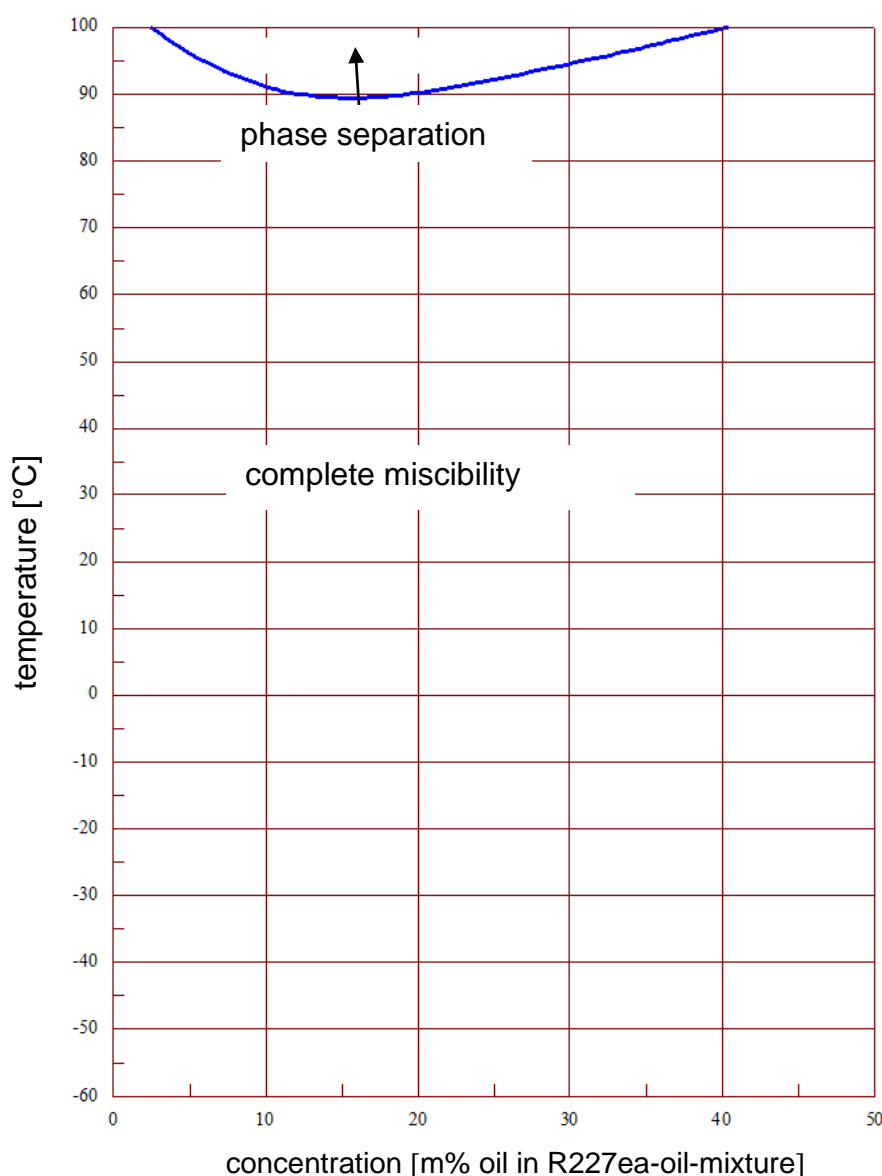


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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R227ea**



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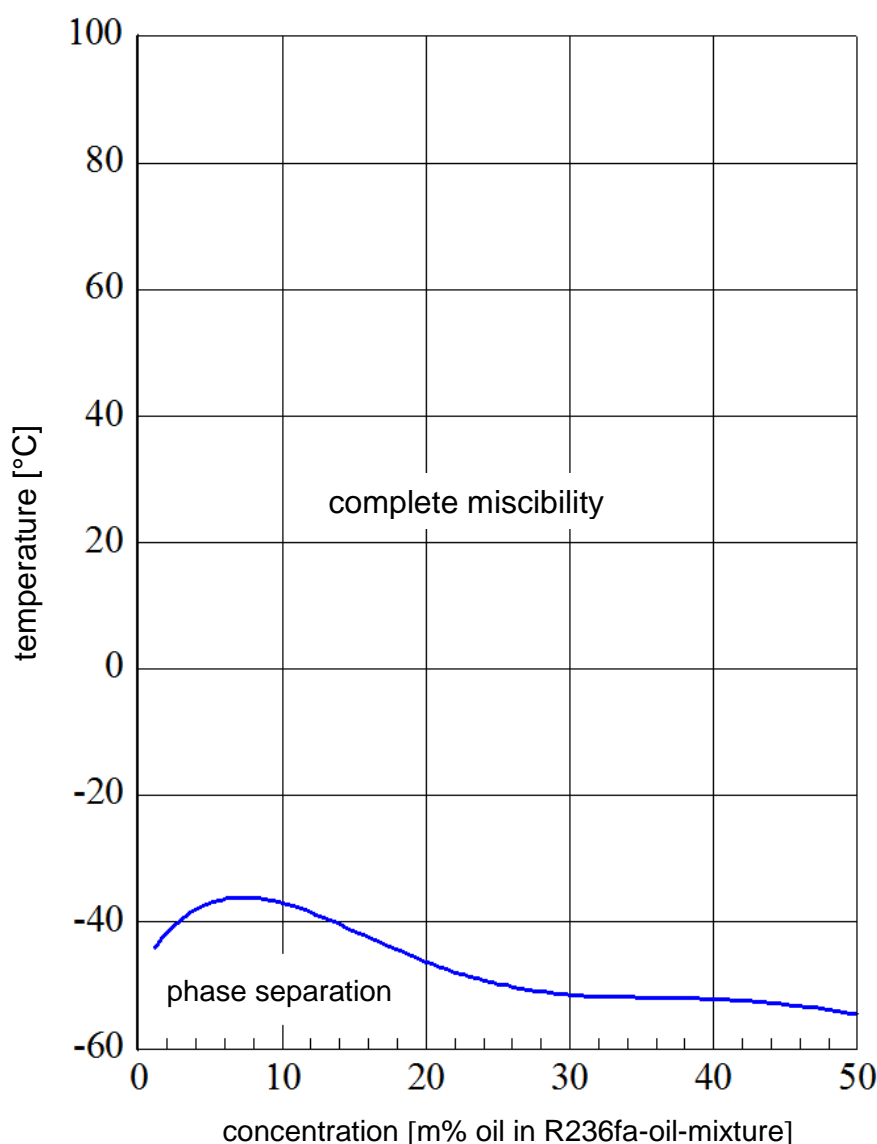
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R236fa**



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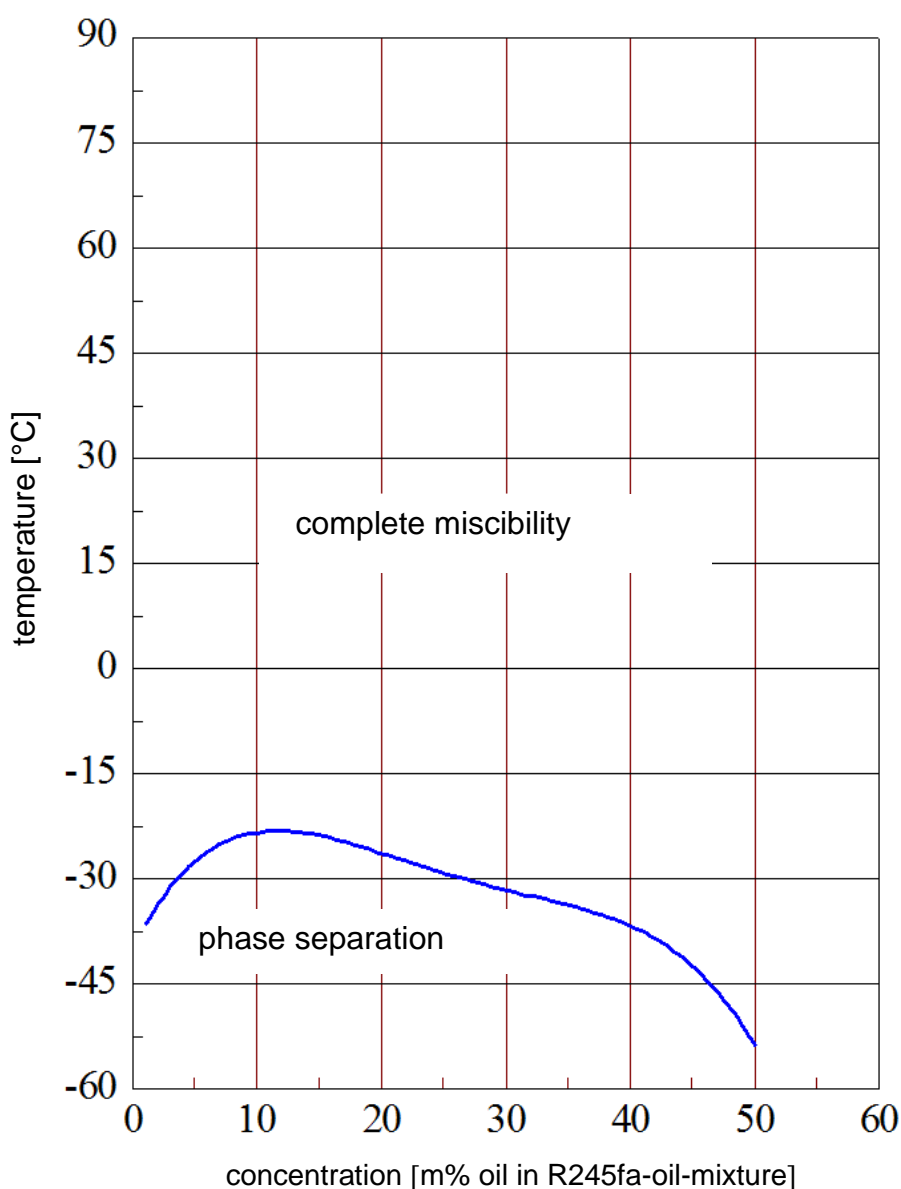
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R245fa**



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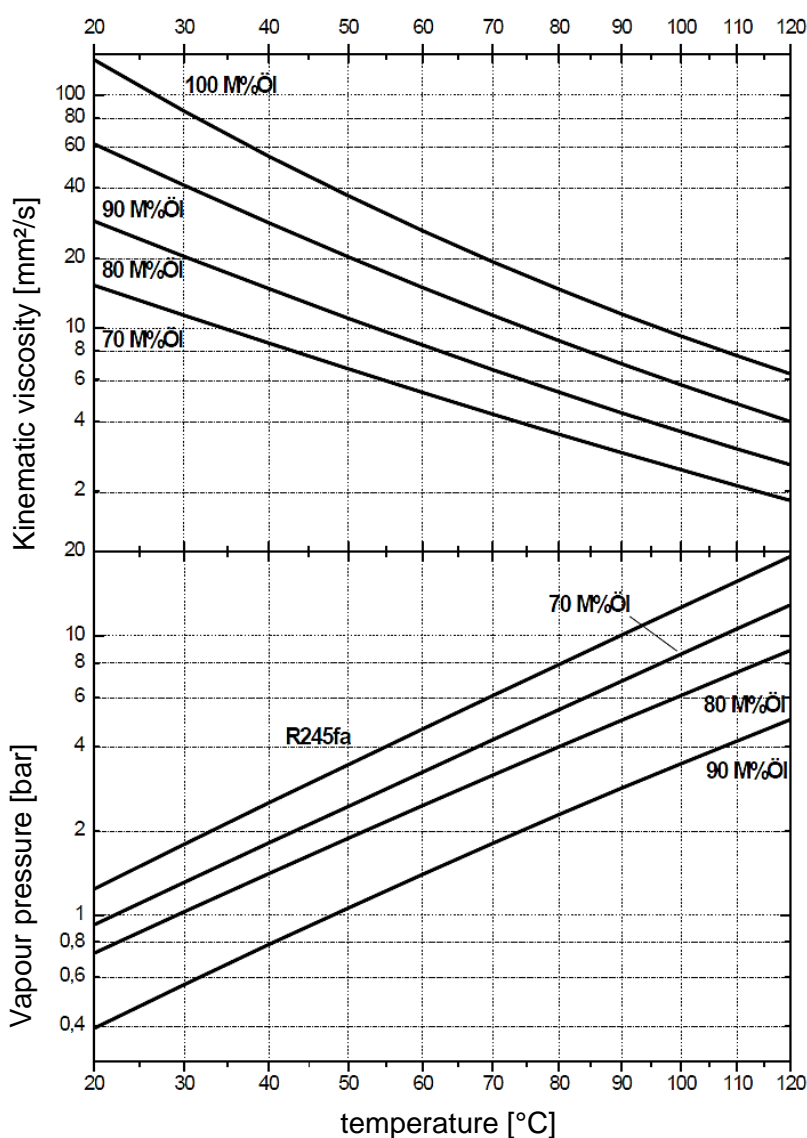
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## RENISO TRITON SE 55

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Kinematic viscosity and vapour pressure: RENISO TRITON SE 55 and R245fa



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

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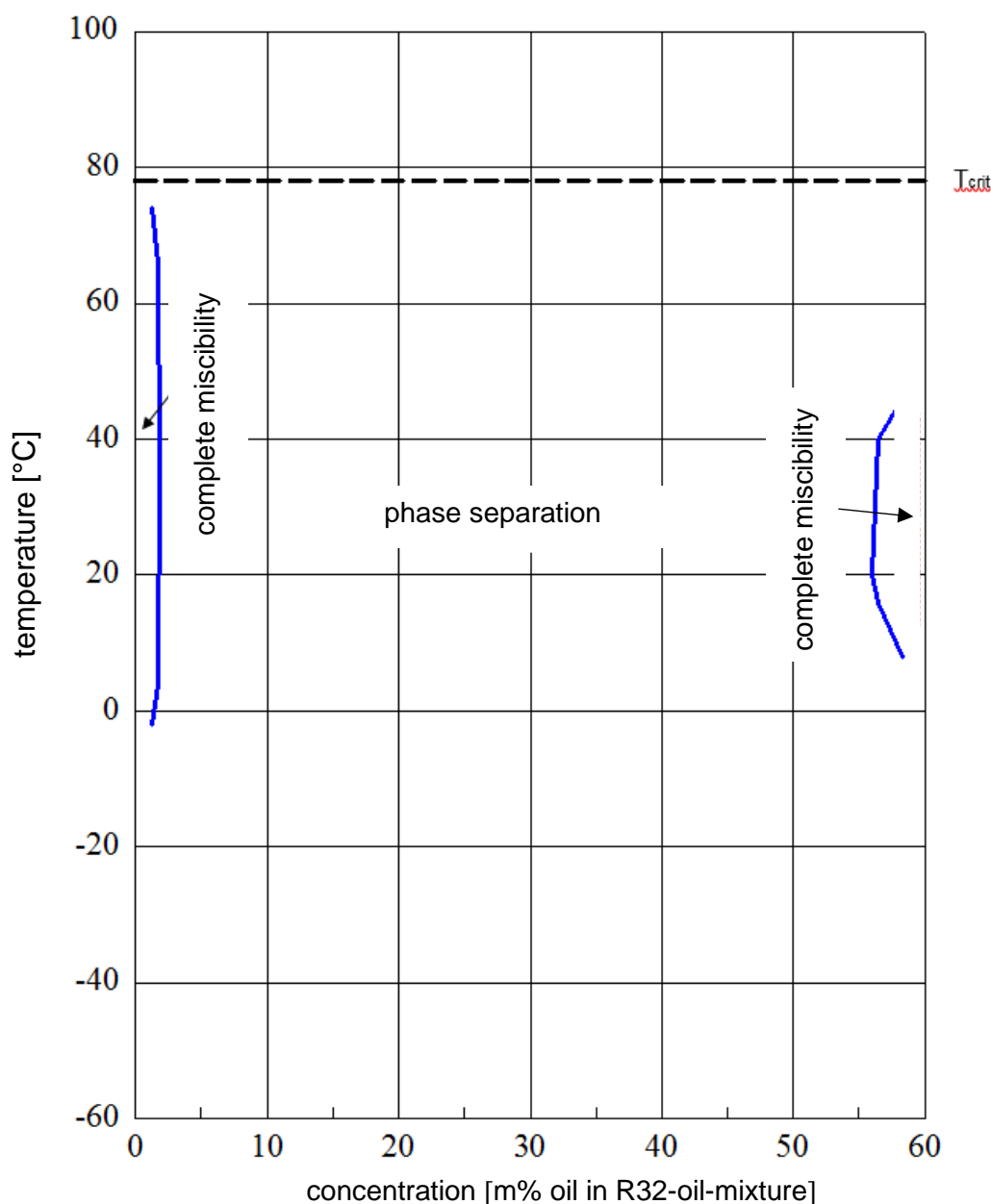
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R32**



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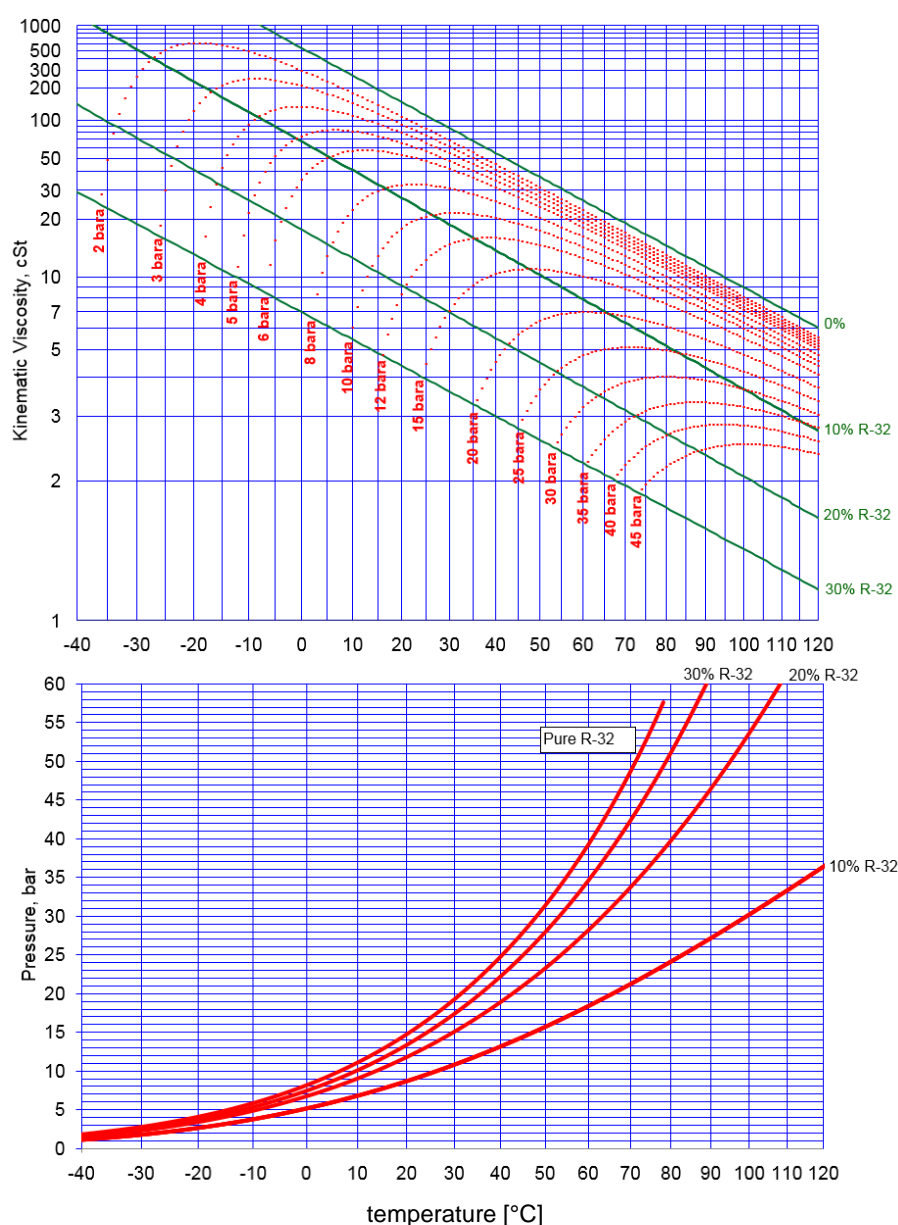
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**Kinematic viscosity and vapour pressure: RENISO TRITON SE 55 and R32**



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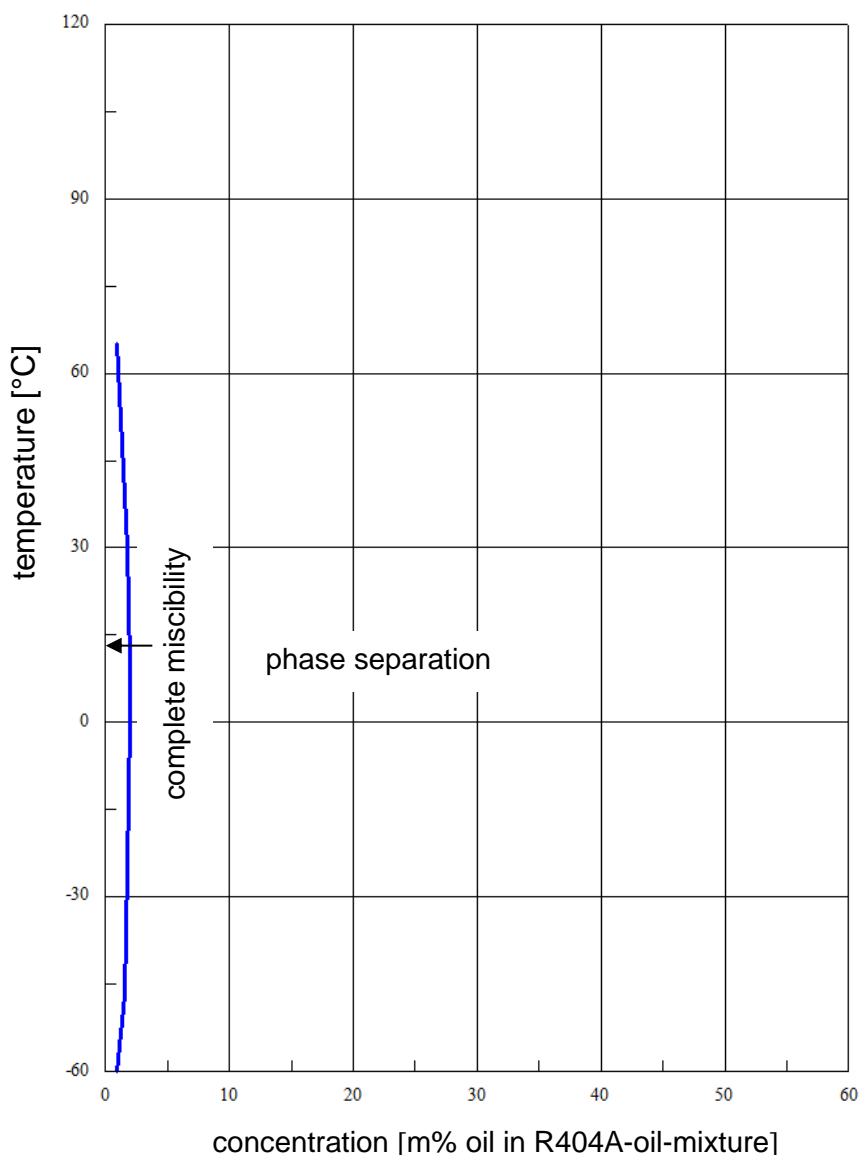
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R404A**



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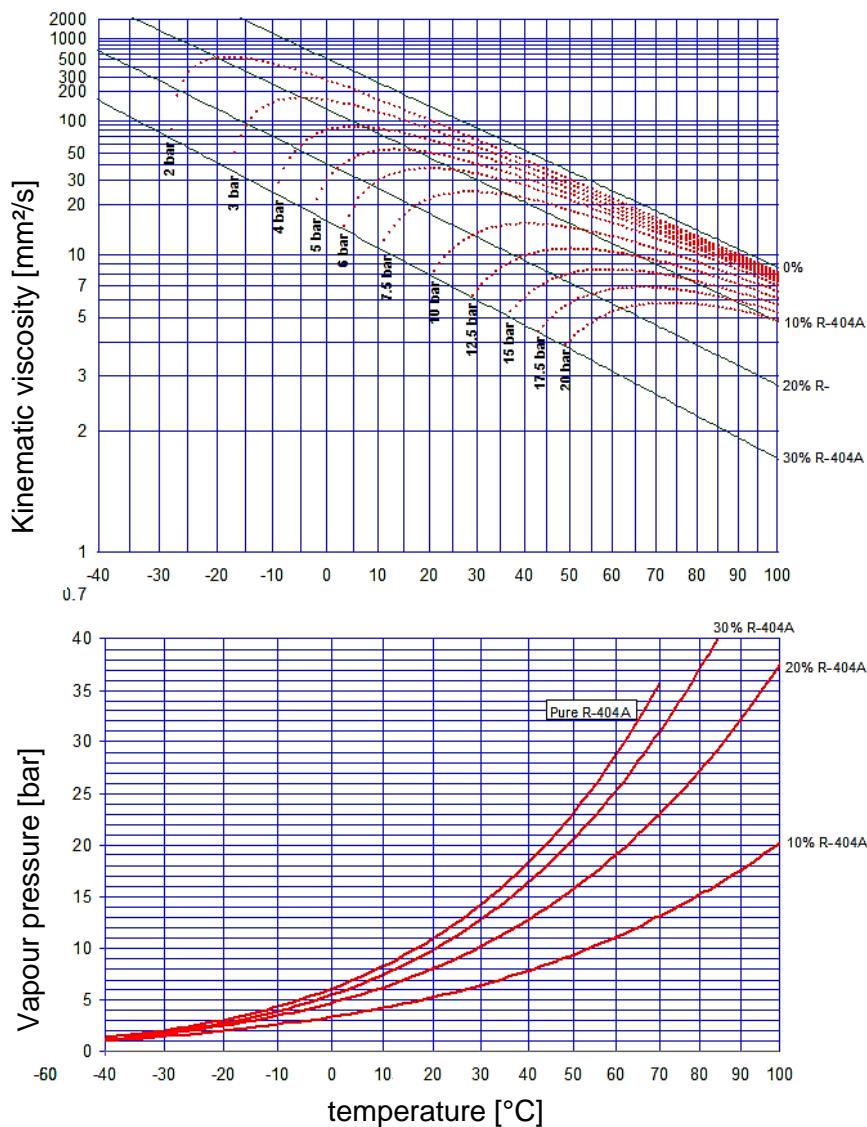
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### Kinematic viscosity and vapour pressure: RENISO TRITON SE 55 and R404A



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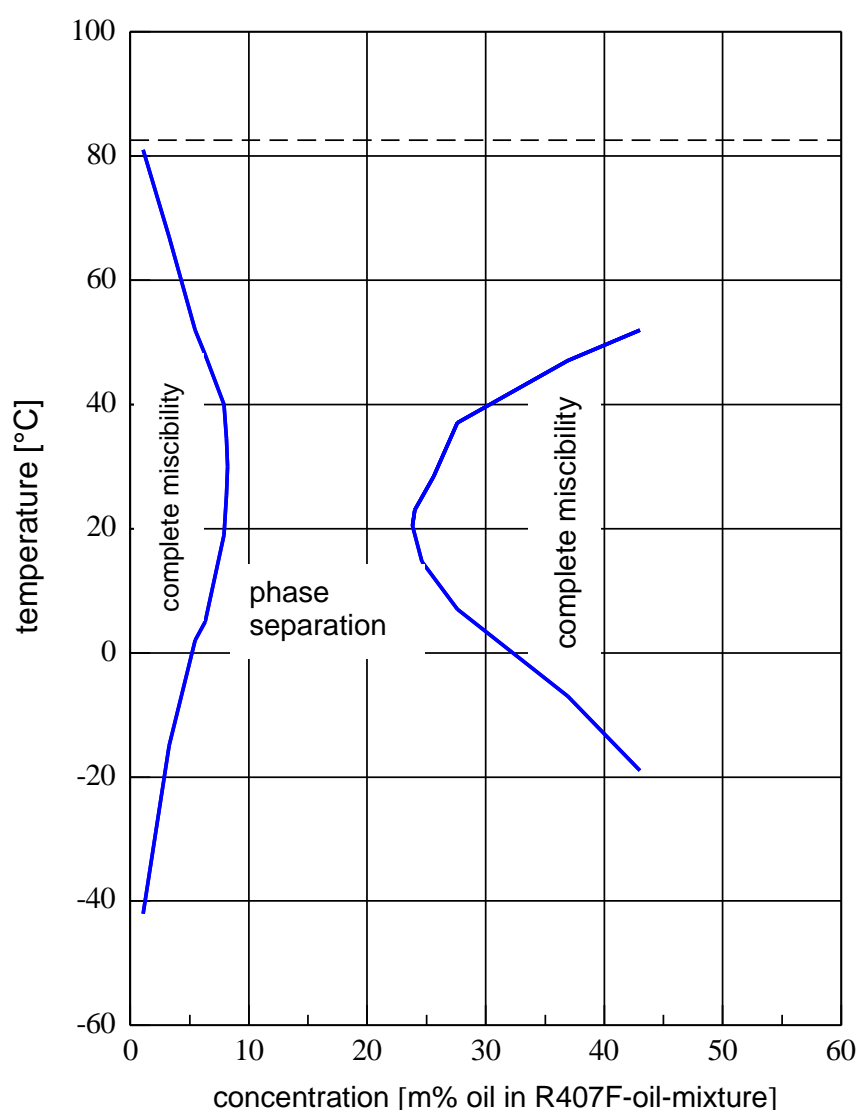
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R407F**



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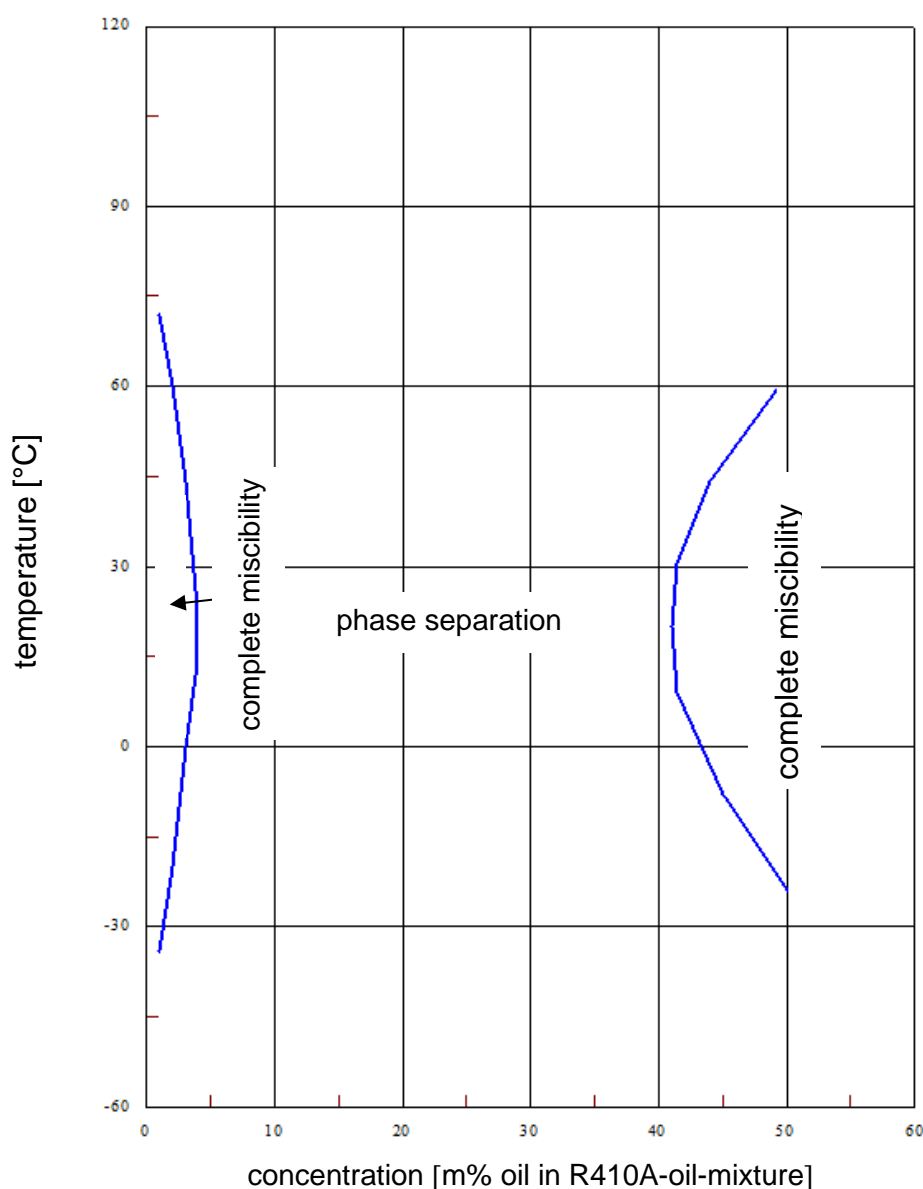
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### Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R410A



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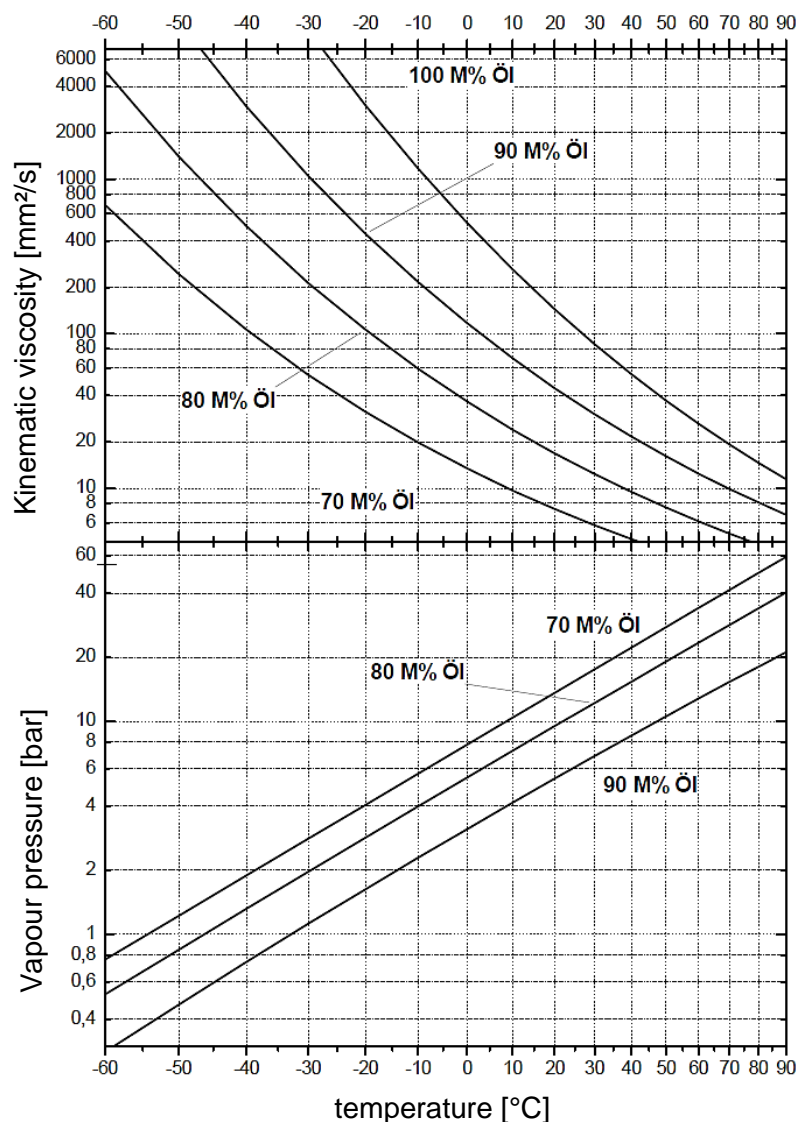
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### Kinematic viscosity and vapour pressure: RENISO TRITON SE 55 and R410A



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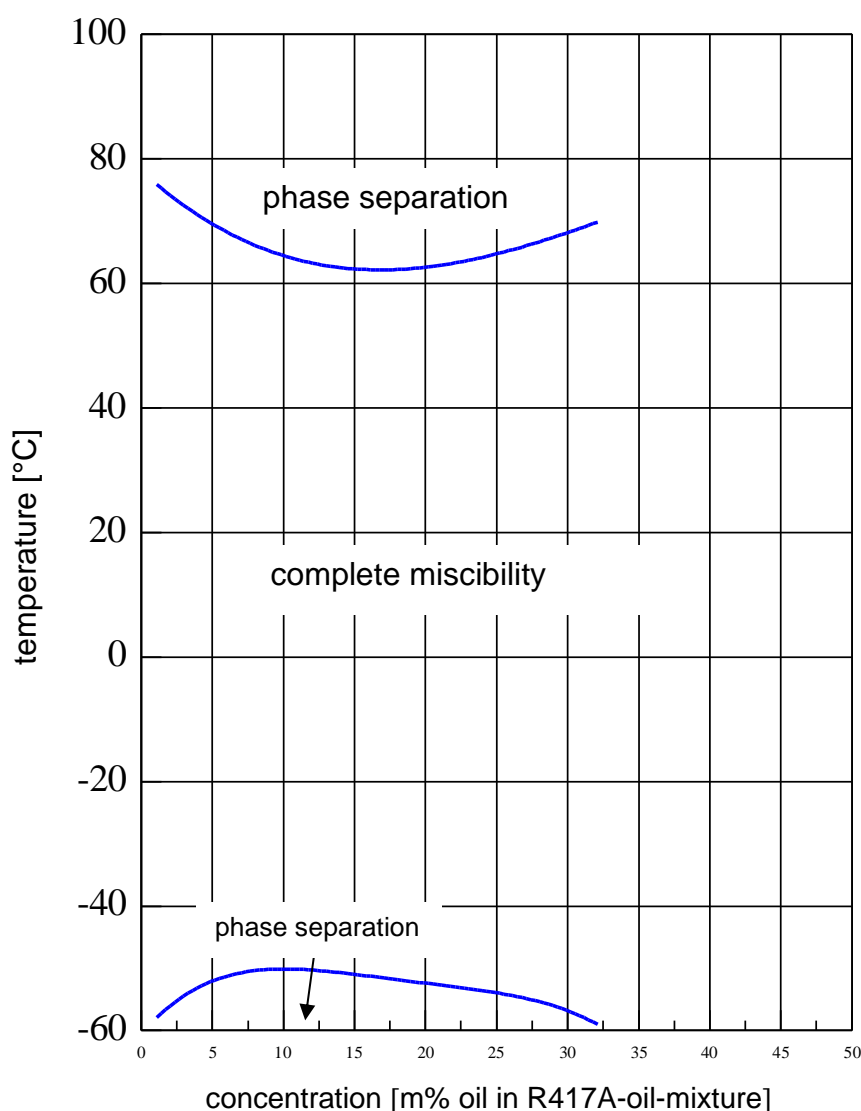
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**Miscibility behaviour (miscibility gap): RENISO TRITON SE 55 and R417A**



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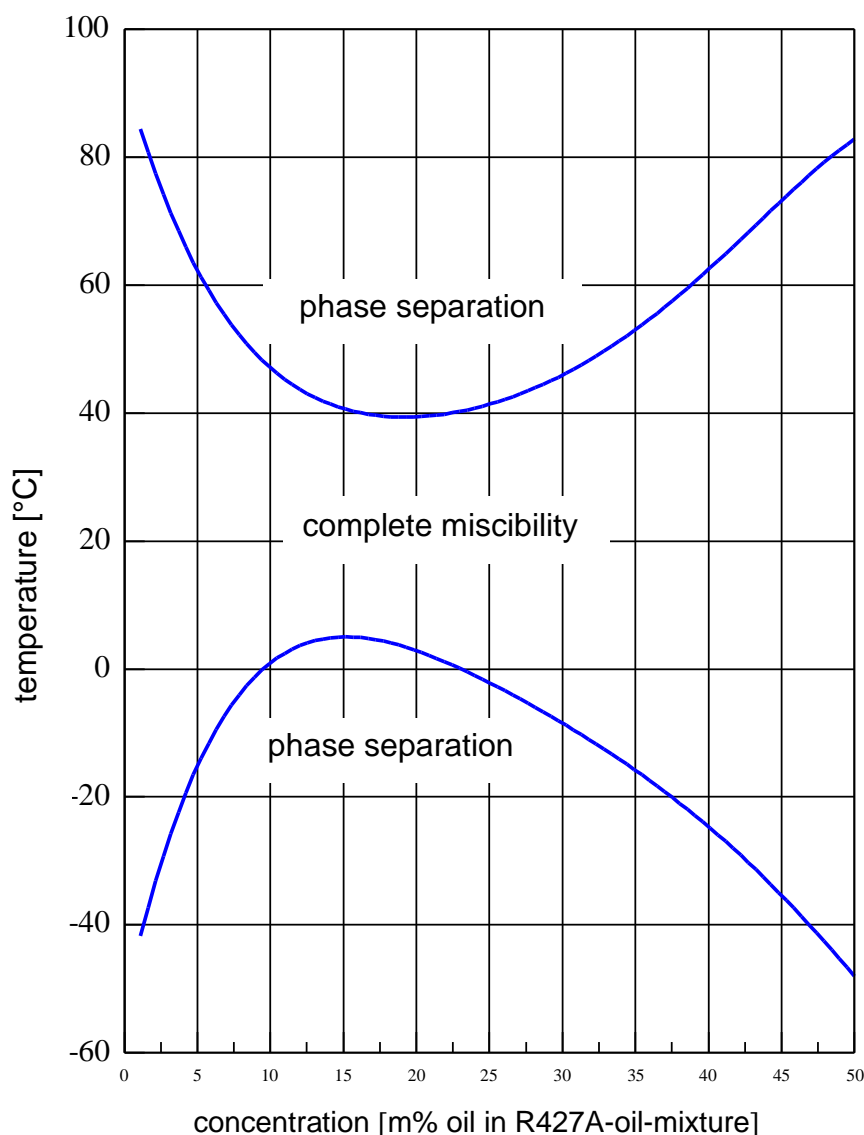
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## RENISO TRITON SE 55

**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 55 and R427A



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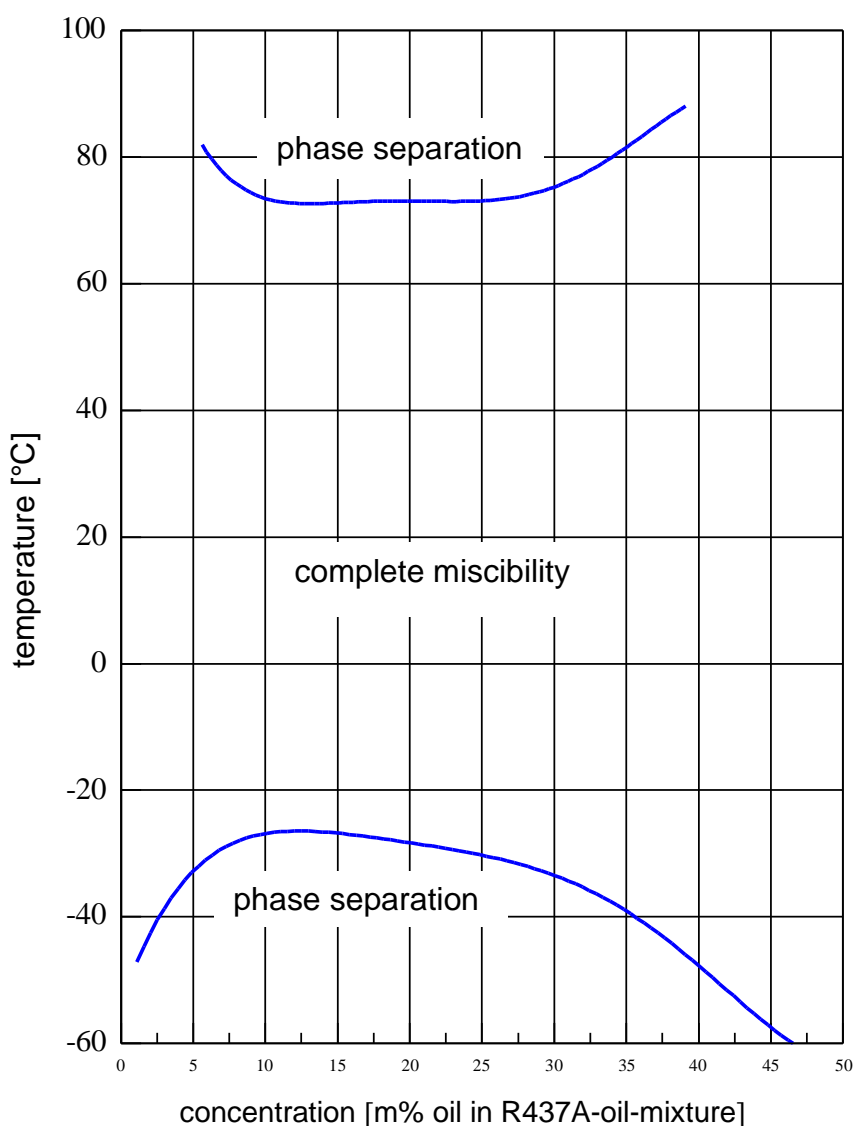
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## RENISO TRITON SE 55

**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 55 and R437A**



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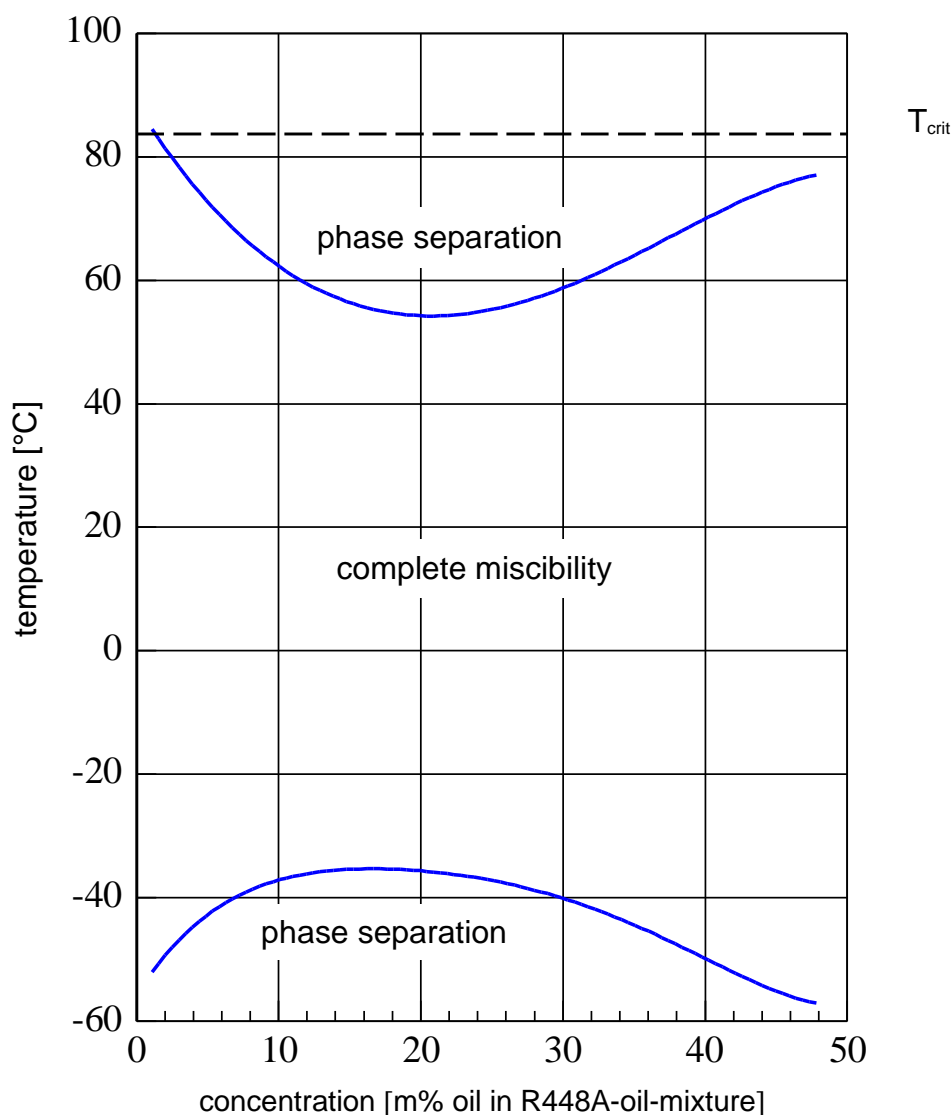
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## RENISO TRITON SE 55

**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 55 and R448A**



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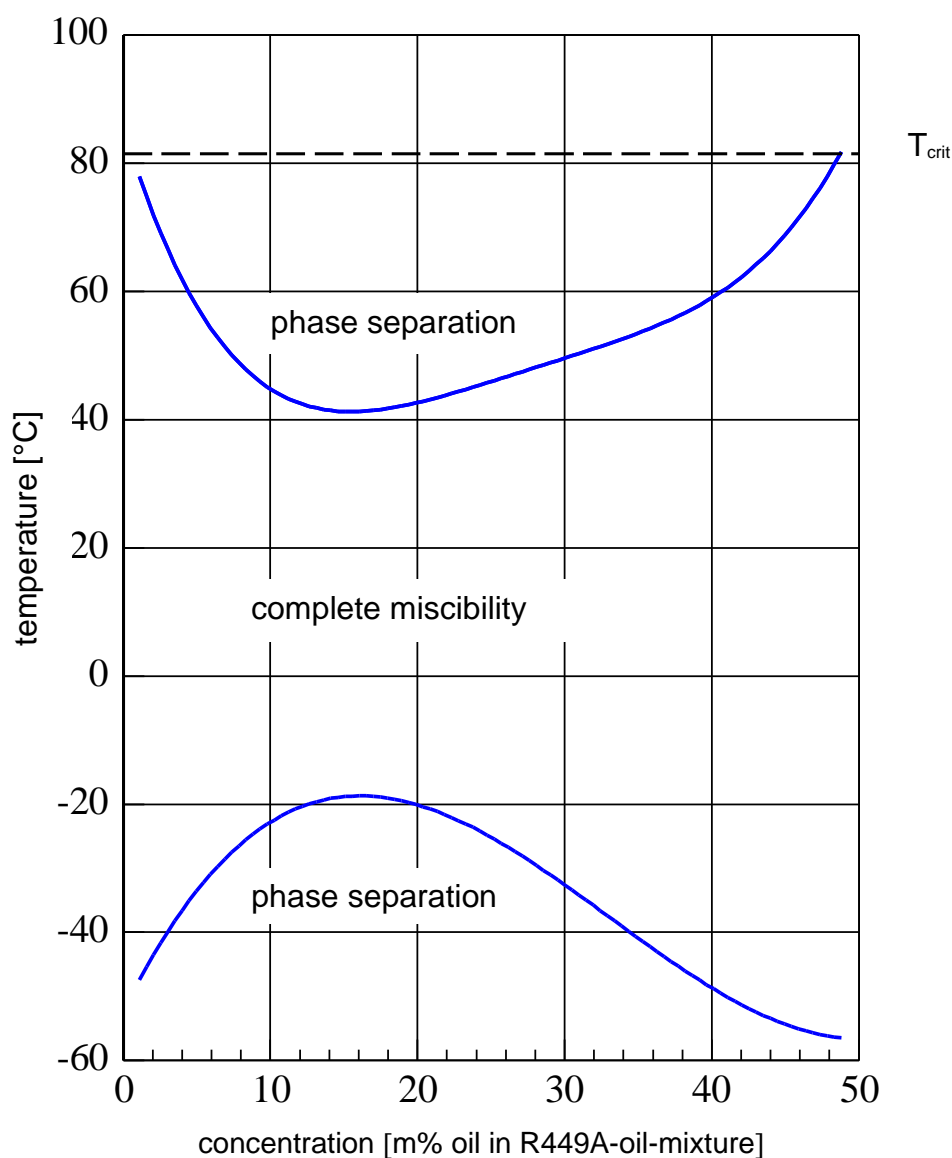
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## RENISO TRITON SE 55

**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 55 and R449A**



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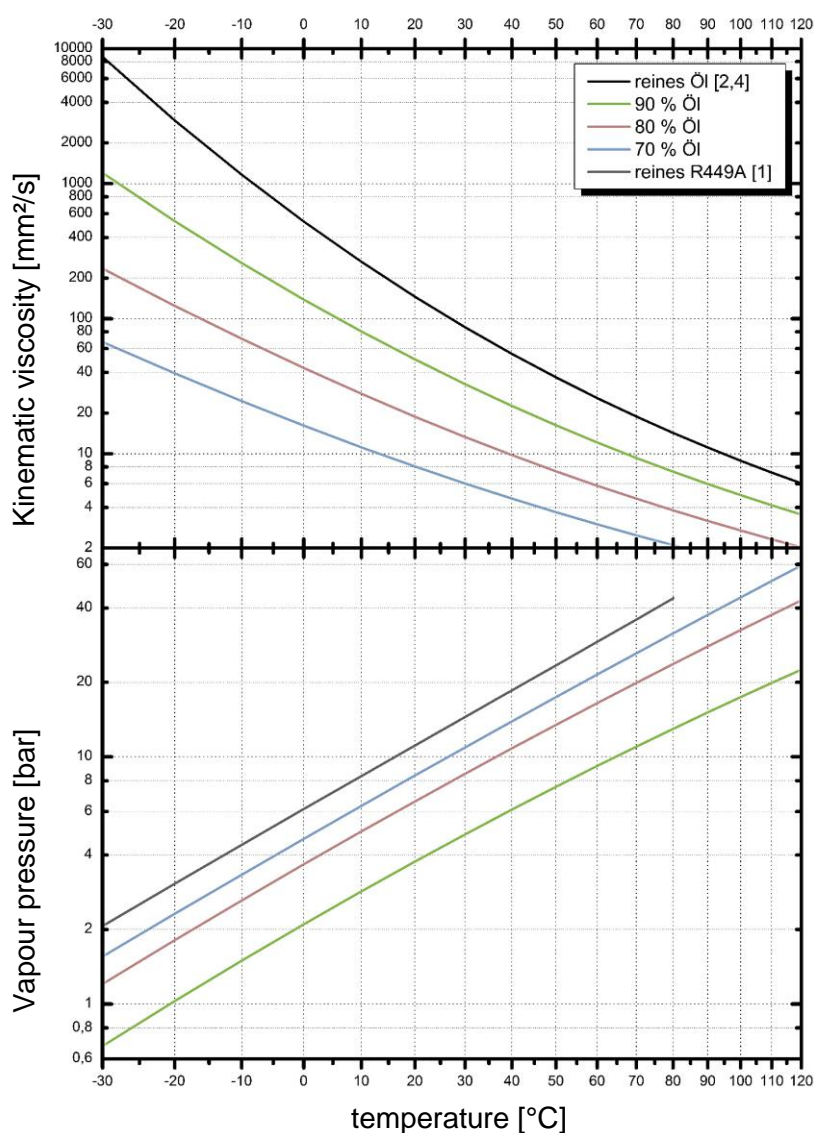
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## RENISO TRITON SE 55

**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 55 and R449A



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

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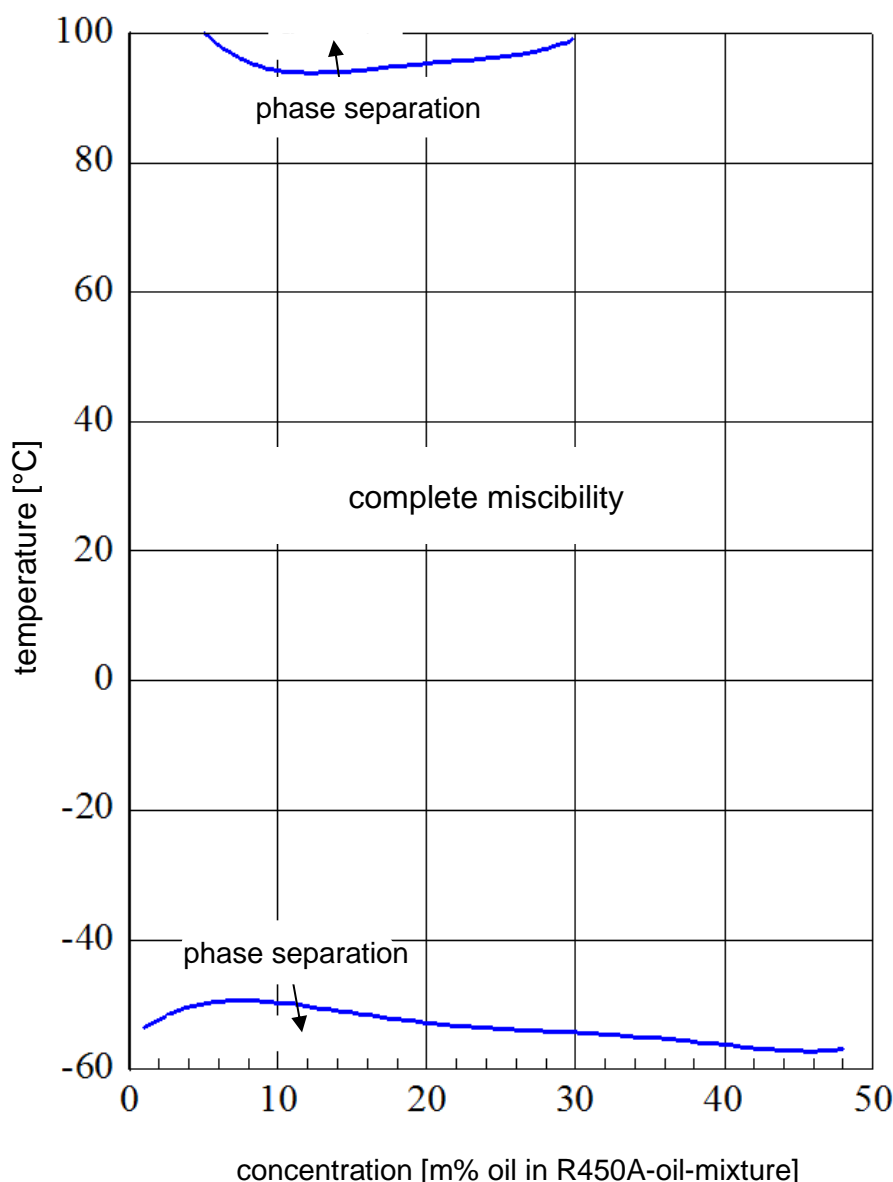
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## RENISO TRITON SE 55

**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 55 and R450A**



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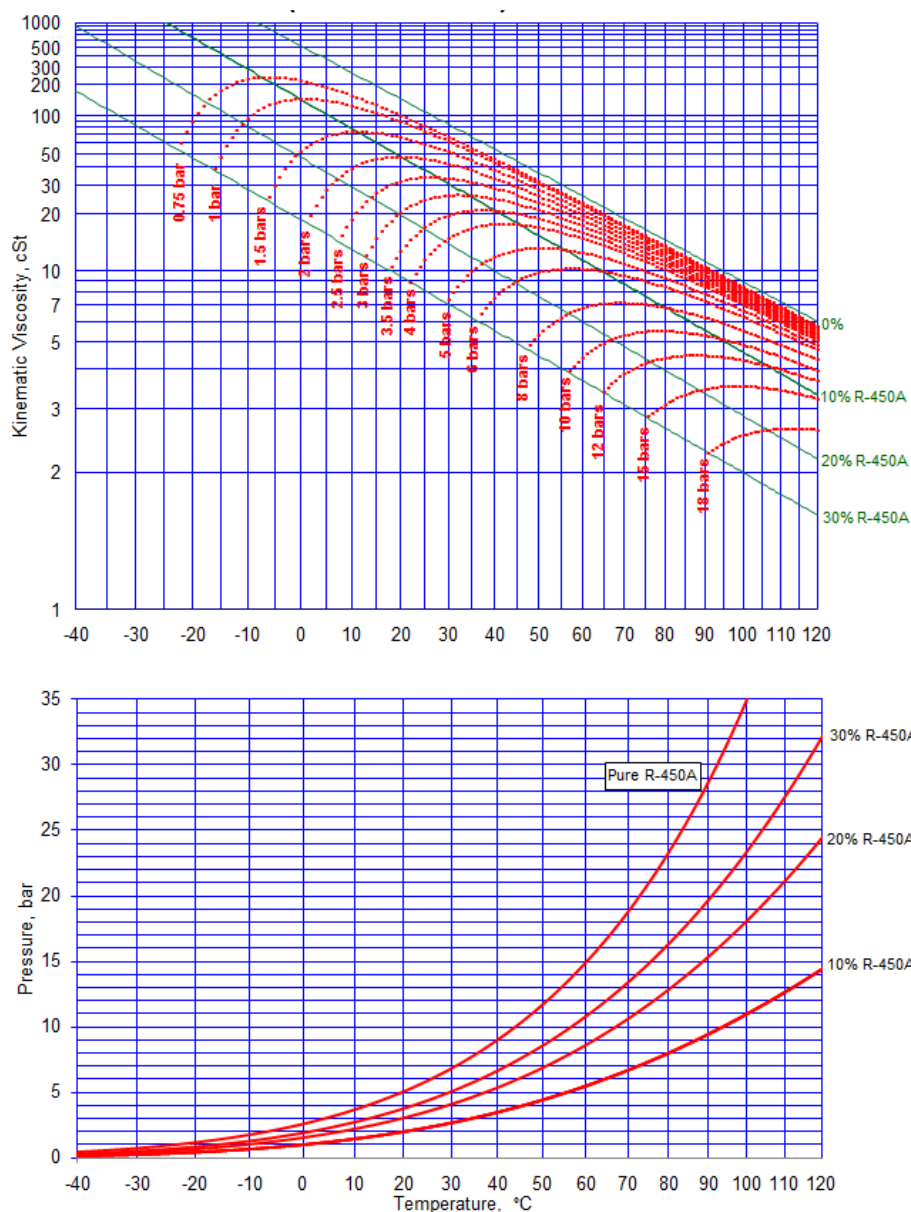
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## RENISO TRITON SE 55

**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 55 and R450A



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

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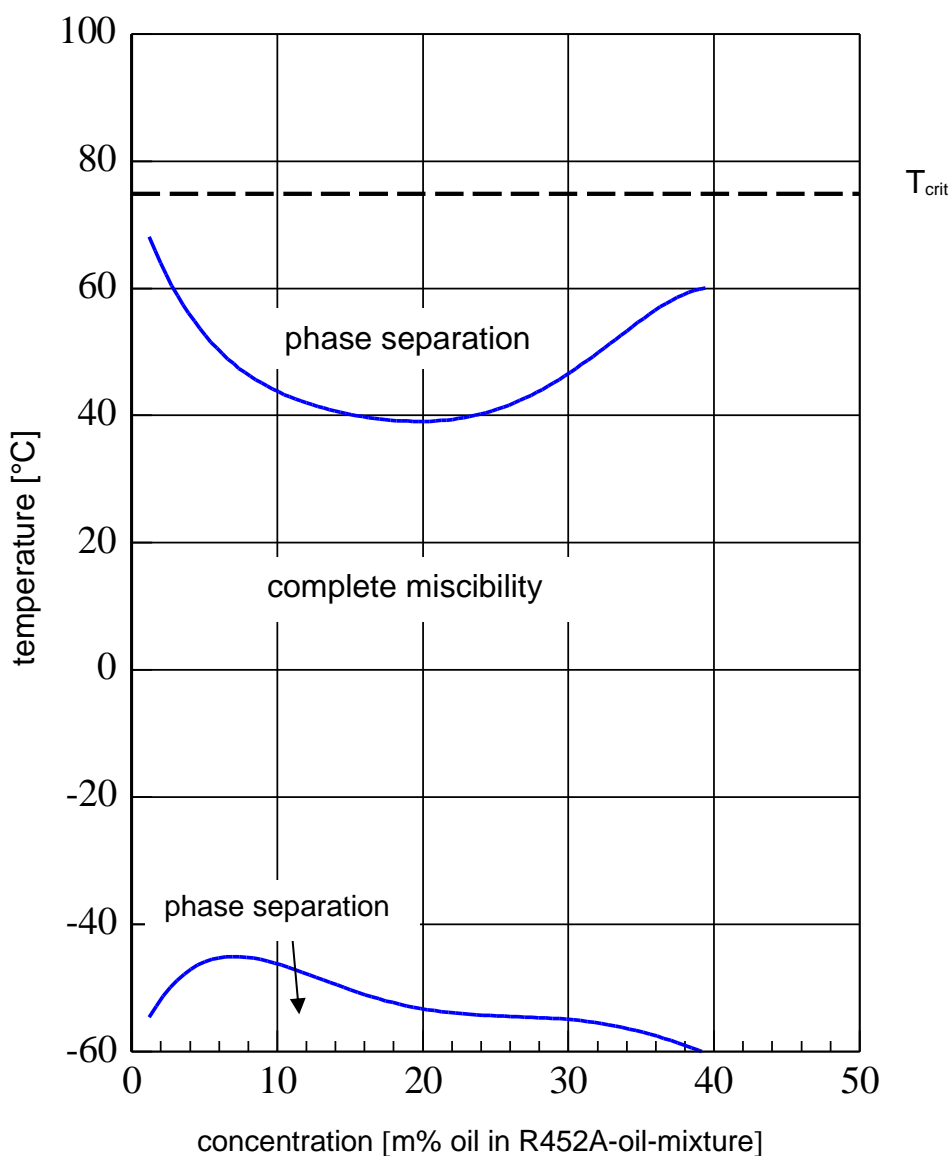
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## RENISO TRITON SE 55

**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 55 and R452A**



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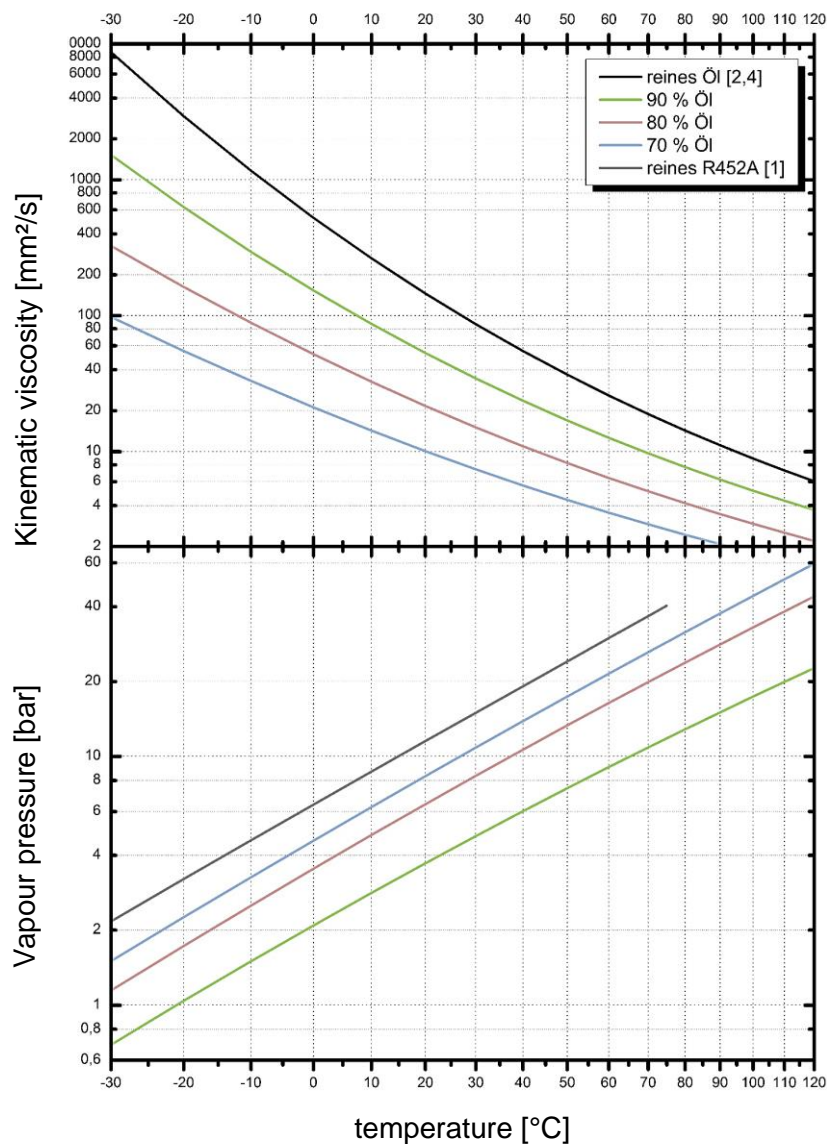
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## RENISO TRITON SE 55

**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 55 and R452A



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

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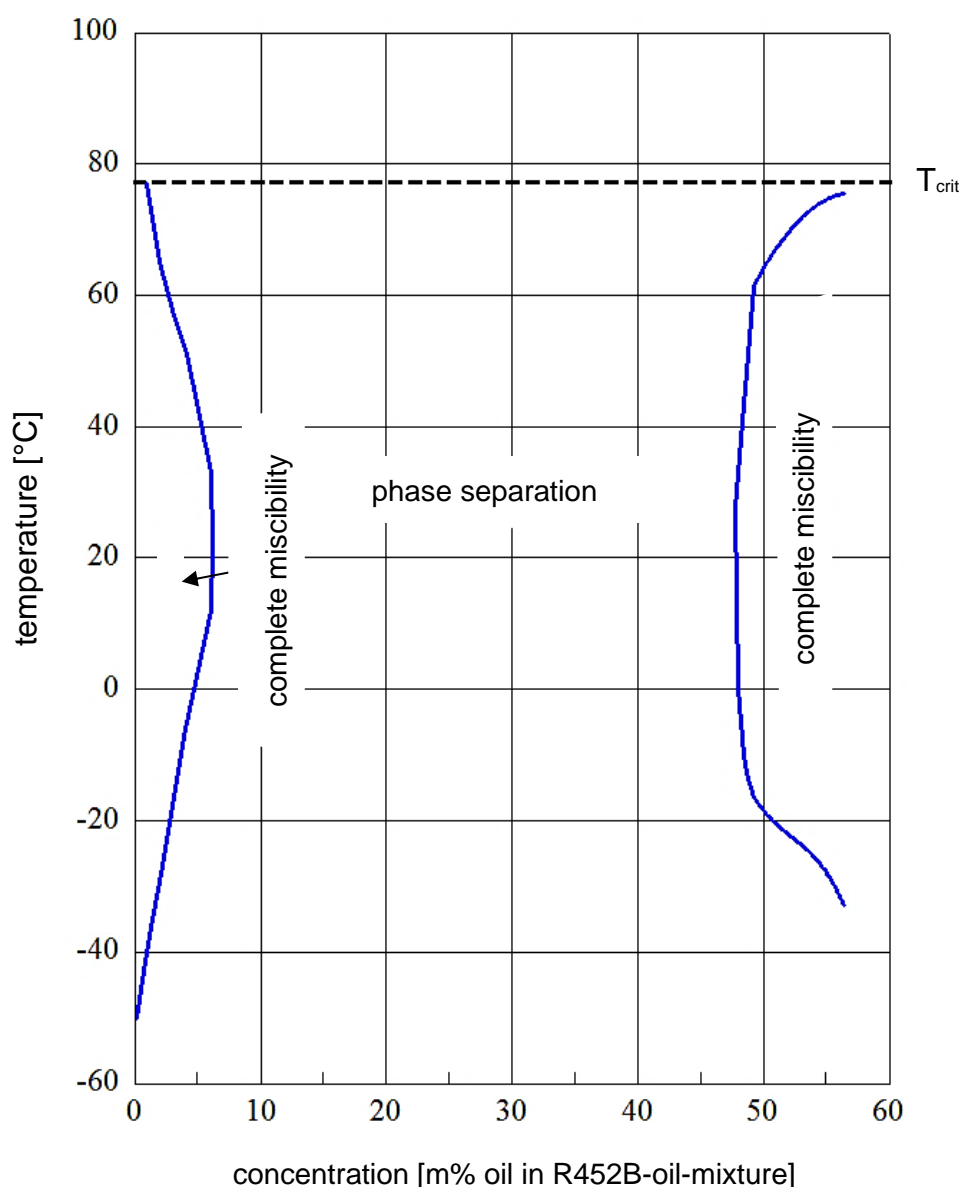
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## RENISO TRITON SE 55

**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 55 and R452B**



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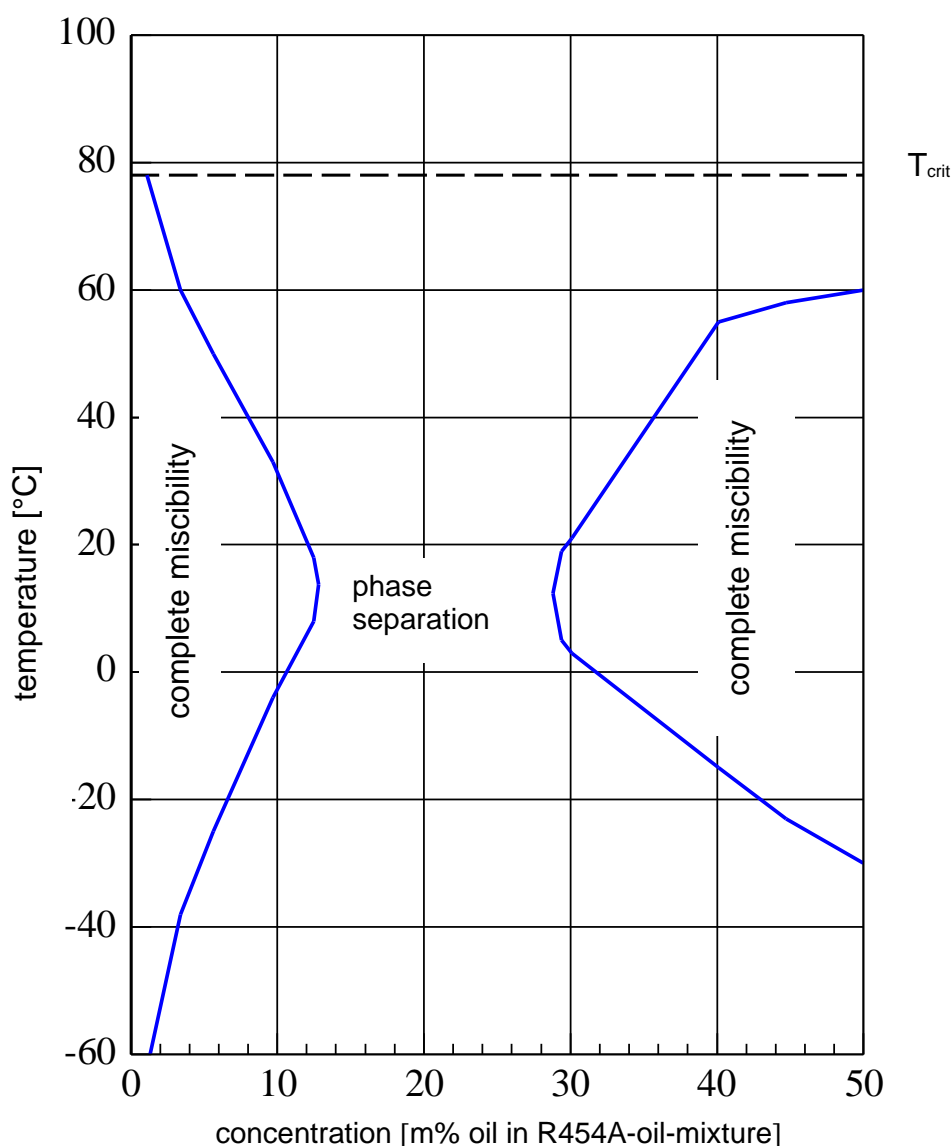
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## RENISO TRITON SE 55

**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 55 and R454A**



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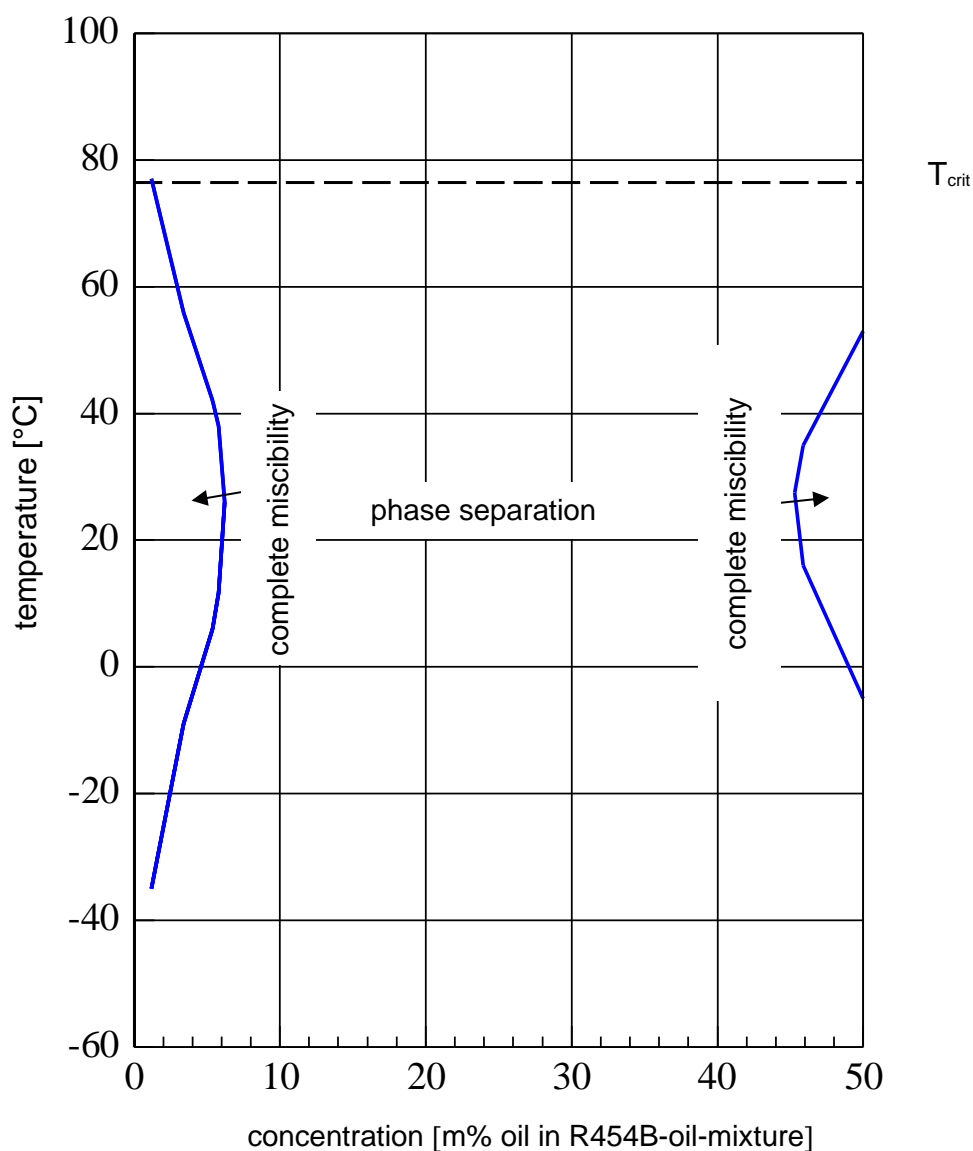
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## RENISO TRITON SE 55

**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 55 and R454B**



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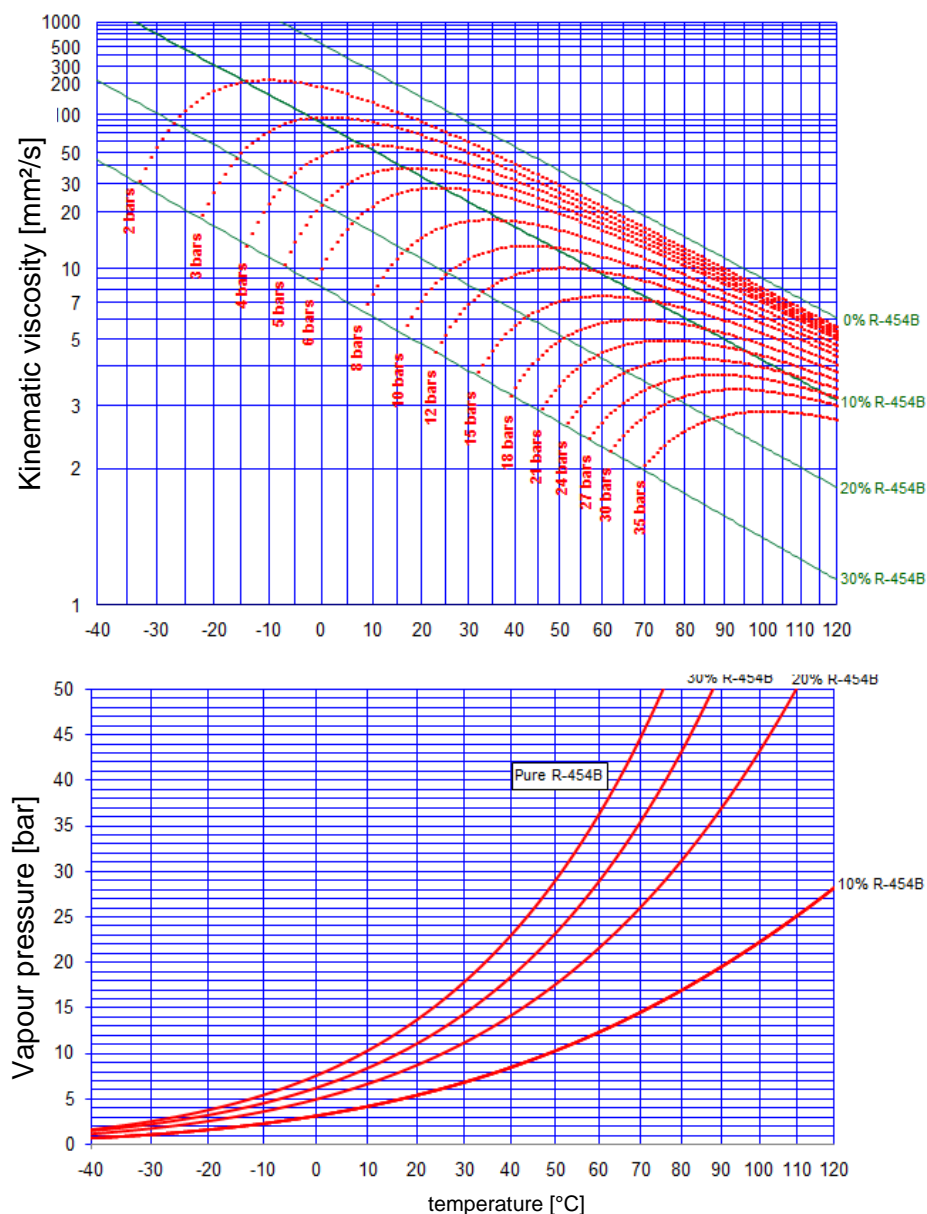
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## RENISO TRITON SE 55

**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 55 and R454B**



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

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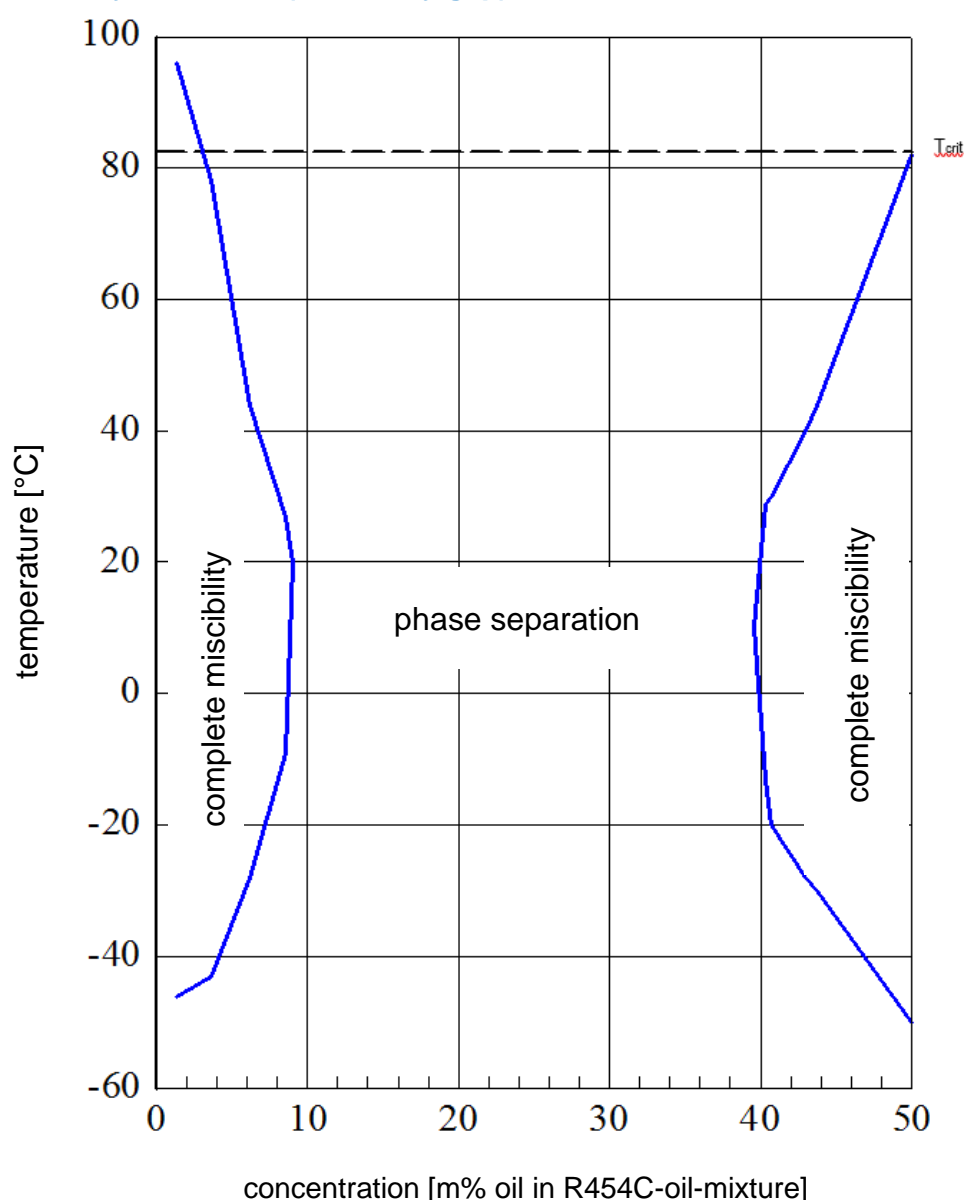
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## RENISO TRITON SE 55

**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 55 and R454C**



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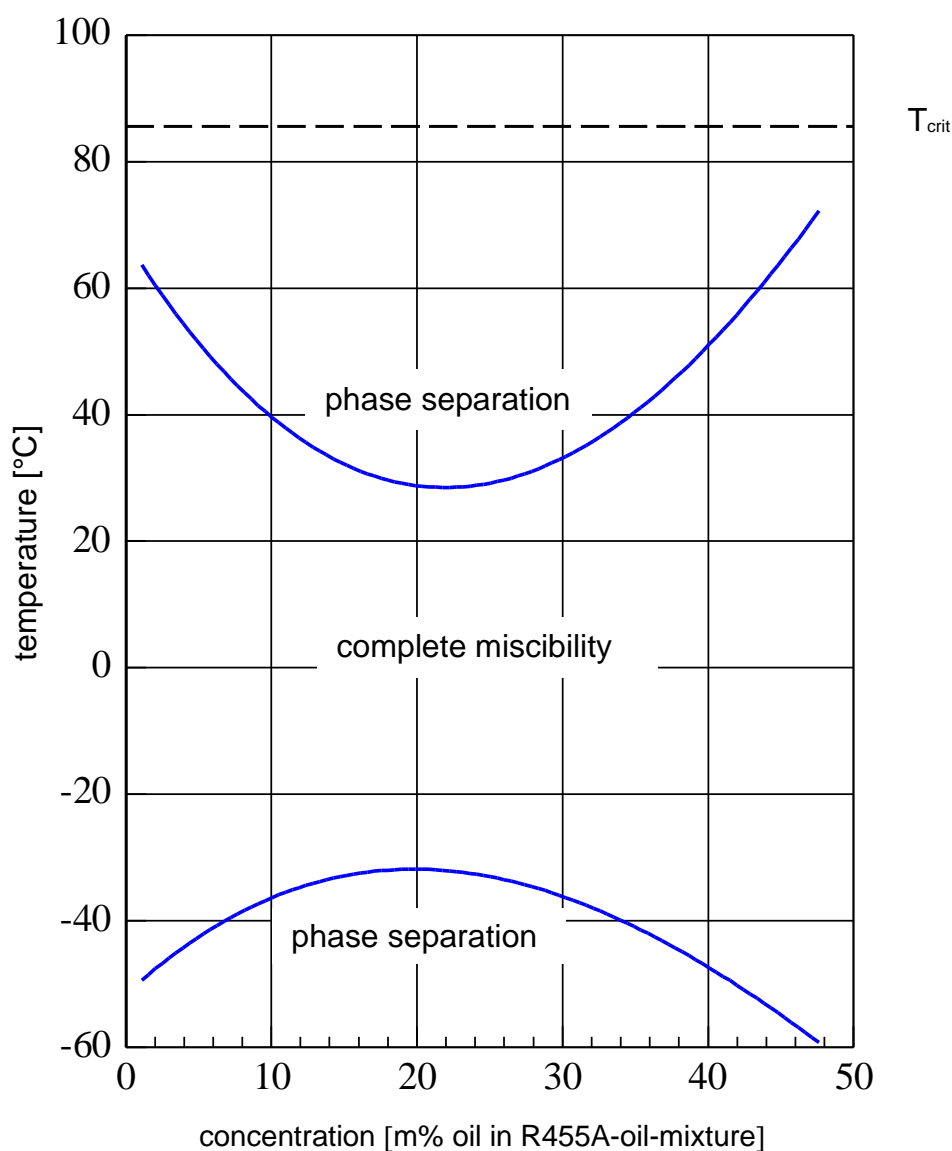
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## RENISO TRITON SE 55

**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 55 and R455A**



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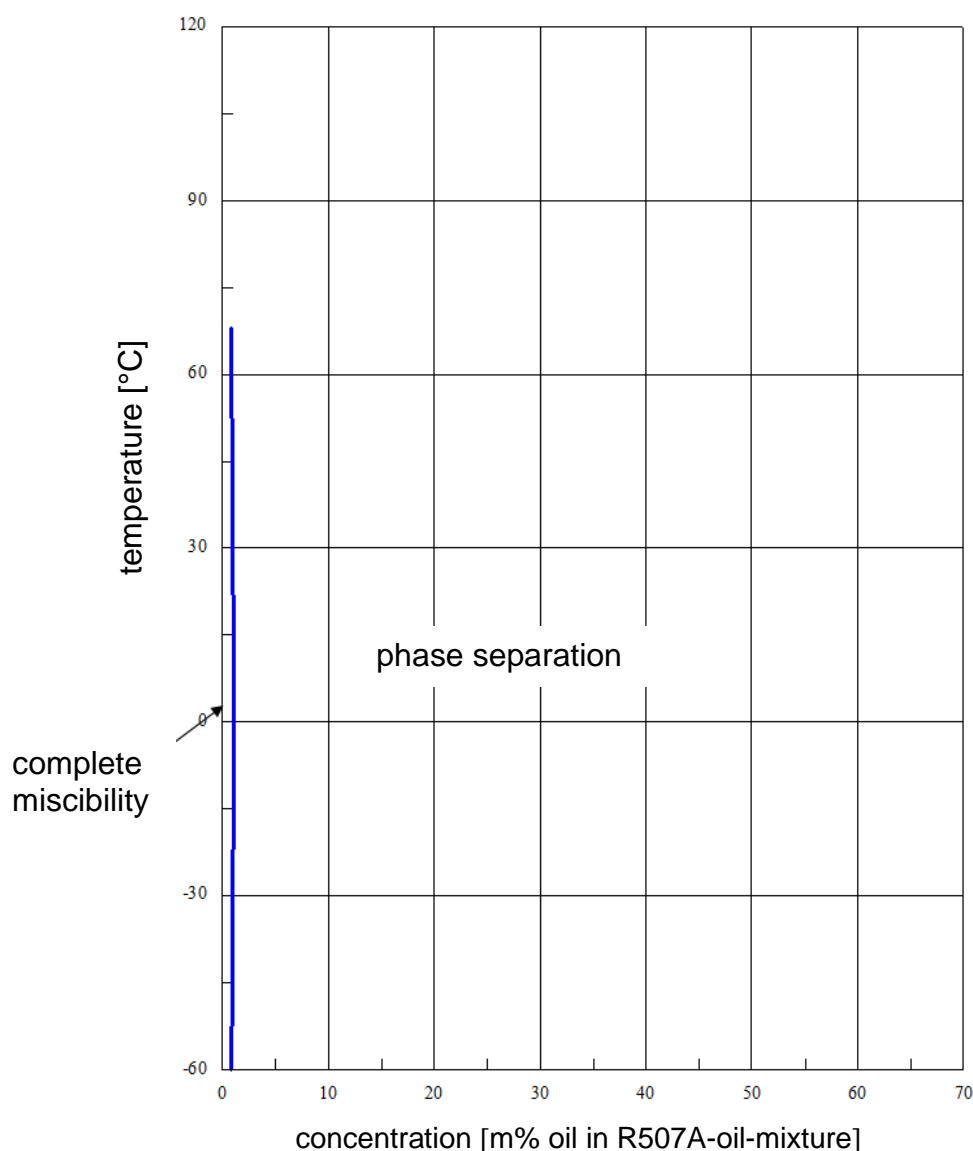
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## RENISO TRITON SE 55

**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 55 and R507A**



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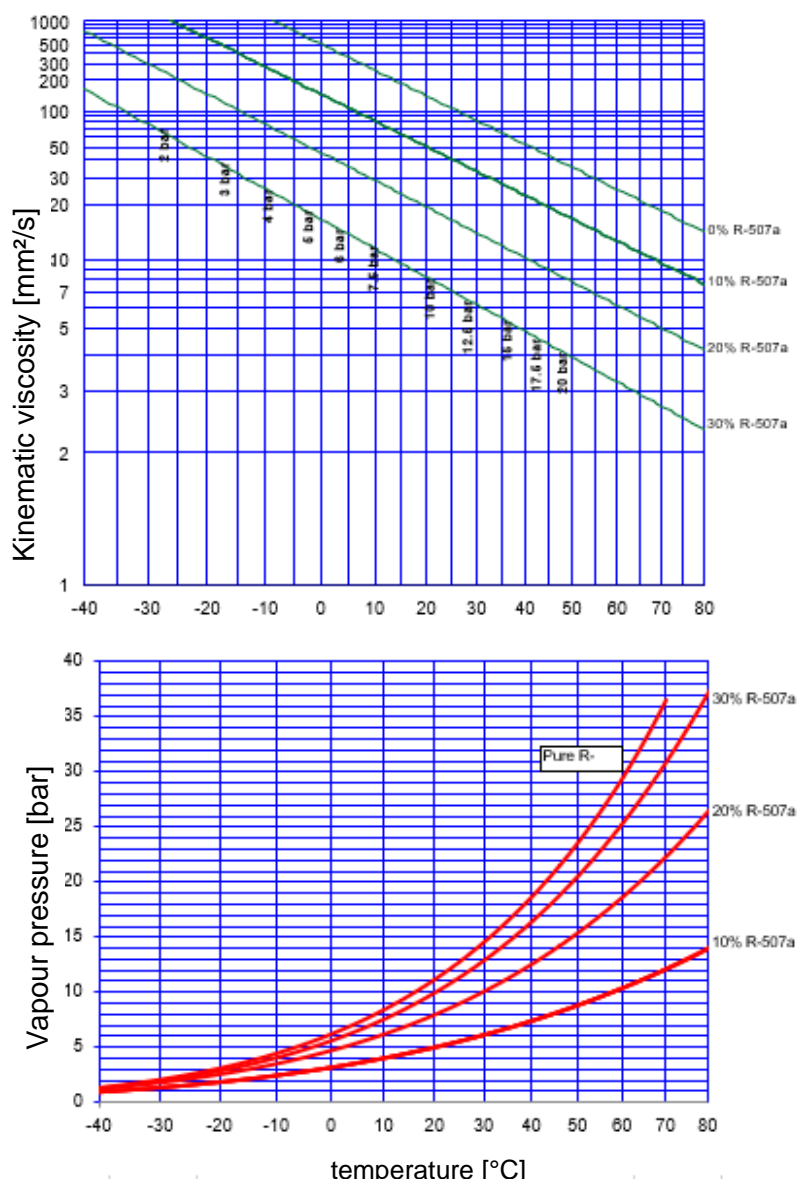
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## RENISO TRITON SE 55

**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 55 and R507A**



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

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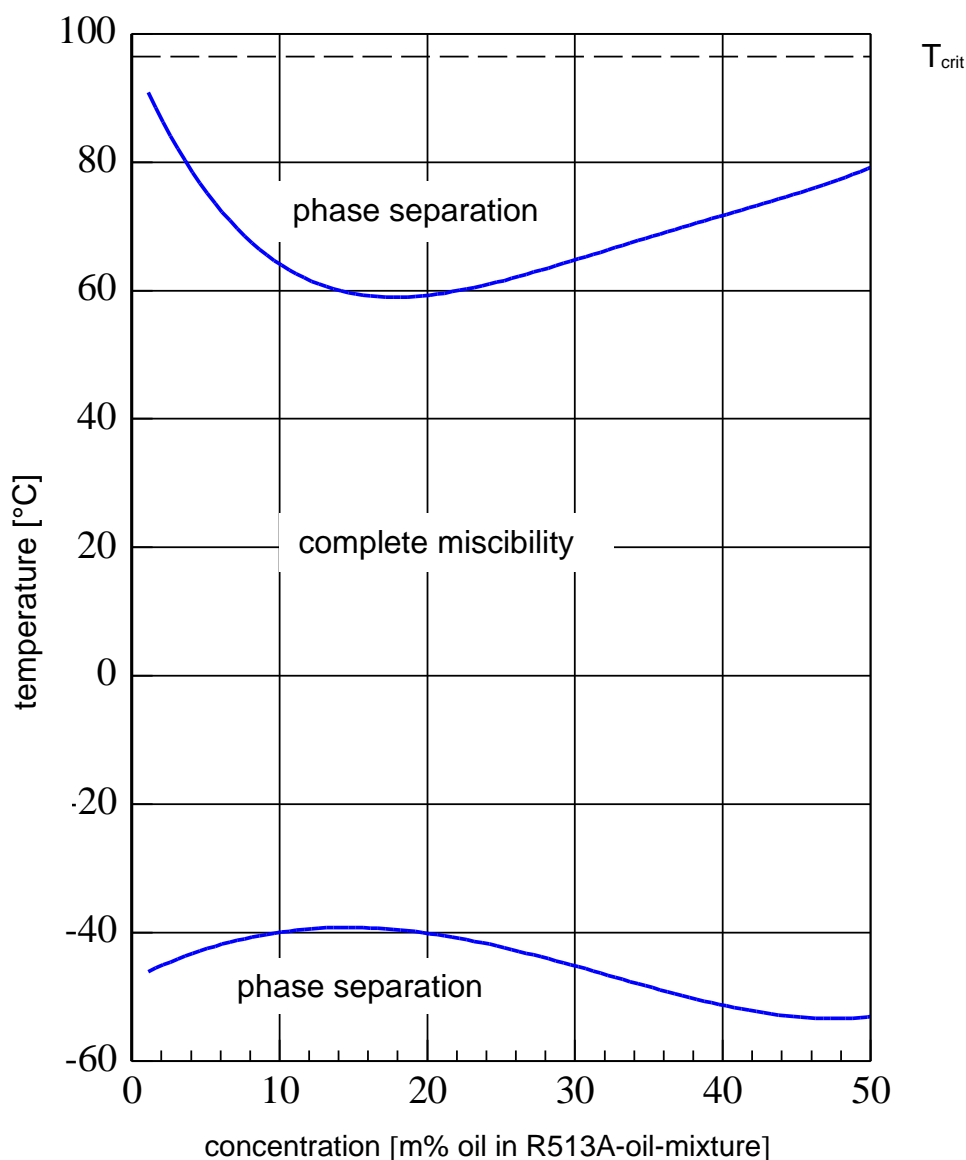
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## RENISO TRITON SE 55

**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 55 and R513A**



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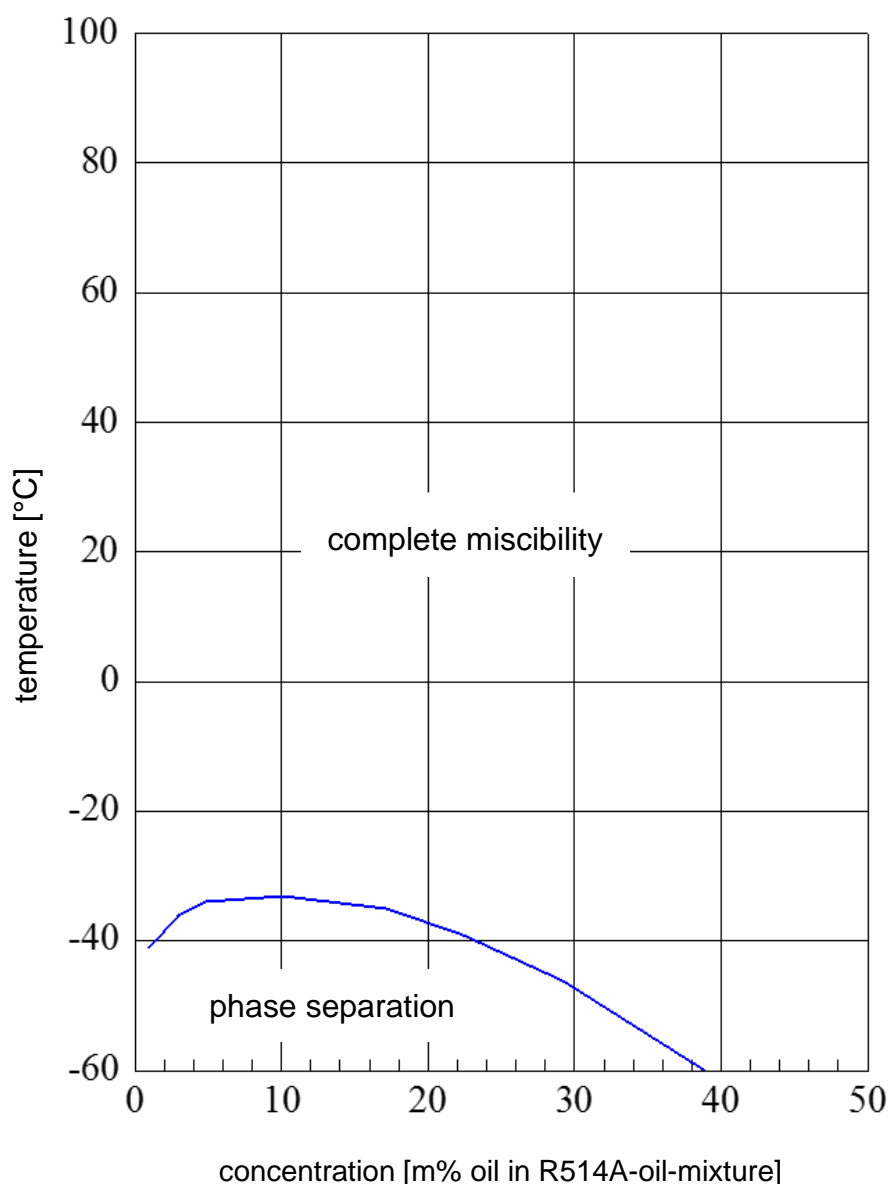
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## RENISO TRITON SE 55

**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 55 and R514A**



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