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## **RAVENOL TTC - Protect C11 Concentrate**

### **NITRITE- AMINE- PHOSPHATE- FREE**

**RAVENOL TTC Traditional Technology Coolant Concentrate** is an eco-friendly 1.2- Ethanediol (monoethylene glycol) based nitrite, amine and phosphate-free coolant for cooling circuits in combustion engines which provides maintenance-free corrosion and frost protection. The product is formulated as a long-term coolant based on a proven inhibitor development.

It is no longer just the anti-freeze effect (which automatically exists in an ethylene-glycol based product) which is critical for the quality of a coolant, but also the rust protection.

Therefore automakers subject coolants to long corrosion and cavitation tests.

**RAVENOL TTC Traditional Technology Coolant Concentrate** protects the cooling system from corrosion, frost, and in the summer from overheating.

### **Application Notes**

**RAVENOL TTC Traditional Technology Coolant Concentrate** with frost and rust protection. Use according to the mixing chart. Follow manufacturer's recommendations.

Even in summer coolant must contain enough antifreeze to ensure good corrosion and overheating protection.

**Instructions:** Clean cooling system, check for leaks, flush.

**Mix RAVENOL TTC Traditional Technology Coolant Concentrate** with fresh water (per mixing chart) and add. Allow engine and heater to warm up, add coolant to fill level.

### **Mixing chart:**

Antifreeze protection to approx.          Parts antifreeze          Parts water

- 12°C	25 %	75 %
- 20°C	35 %	65 %
- 37°C	50 %	50 %

## Quality Classifications

**RAVENOL TTC Traditional Technology Coolant Concentrate** is tried and tested for aggregates specifying:

### Specifications

VW TL 774-C (acc. to G11 quality), BS 6580 (GB), O Norm V 5123 (Österreich), JIS K 2234 (Japan), CUNA NC 956-16 (Italien), AFNOR R15-601 (Frankreich), SAE J1034, UNE 25-361 (Spanien), ASTM D 4985, ASTM D 1384, ASTM D 2570, ASTM D 2809, FORD WSS-M97B51-A, FIAT 9.55523, FIAT PARAFUO 11, IVECO 18-1830, ASTM D 3306 Type 1, ASTM D 6210 Type 1-FF, CHRYSLER MS 7170

### Characteristic

**RAVENOL TTC Traditional Technology Coolant Concentrate** offers:

- Excellent for light metal engines
- Good reserve alkalinity
- High-quality corrosion additives for optimal corrosion protection
- Elastomer compatible with elastomers used in automotive radiators

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Characteristics	Unit	Data	Audit
Colour		yellow-green fluorescent	visual
Density at 20°C	kg/m <sup>3</sup>	1130	EN ISO 12185
Flash point (COC)	°C	141	DIN 51 758
Boiling point	°C	155	ASTM D 1120
pH-value (50 %, 20°C)		7,8	ASTM D 1287
Reserve alkalinity	ml 0,1 n HCL	20	ASTM D 1121
Water content	Gew.-%	5	ASTM D 1123
Freezing point (50 %- Lösung)	°C	-37	ASTM D 1177

All indicated data are approximate values and are subject to the commercial fluctuations.