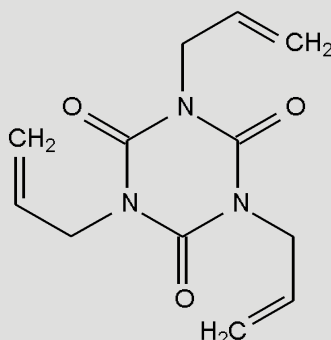


TAICROS®

Triallyl isocyanurate

 $C_{12}H_{15}N_3O_3$ 

Synonym	1,3,5-Triallyl-s-triazine-2,4,6 (1H,3H,5H)-trione
CAS-No.	1025-15-6
EINECS-RN.	213-834-7
Molar Mass	249.27 g/mol
Description	colourless and almost odourless liquid or crystals
Packaging	plastic can (30 kg), steel drum (200 kg), bulk container (1 t)

Specification

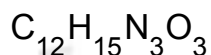
Property	Value Unit	Method
Purity	min. 99.0 %	GC-Determination
Colour (APHA)	max. 50	Colourimetric determination

Physical and chemical data

Property	Value Unit	
Melting point	25 °C	
Boiling point at 6 hPa	150 °C	
Density at 30 °C	1.152 g/cm ³	
Viscosity at 30 °C	90 mPa/s	
Flash point	160 °C	
Solubility in water	0,4 g/100g	
Solubility in most organic solvents	soluble	

TAICROS®

Triallyl isocyanurate

**Properties**

TAICROS® is a trifunctional monomer which can polymerize especially in the presence of peroxide catalysts. It has an excellent thermal stability and does not hydrolyze in the presence of water or components with a high surface area and catalytic active groups.

Stabilization

TAICROS® is stabilized with a hydroquinone derivative. For crosslinking of high melting polymers a higher stabilizer content is recommended (TAICROS® E 1000).

Application

TAICROS® is used as coagent in peroxide crosslinking of elastomers like HNBR, EPM, EPDM, EVA, CR, TPE's and of thermoplasts like PE and FKM's. It can also be employed as coagent for electron beam crosslinking of PA 6, PA 12, PBT. TAICROS® increases the crosslinking density, leads to a lower compression set and improved aging properties. Typical products are pipes and hoses, sealings, damping materials, cable coatings and electrical components, foams and shoe soles.

Handling and Storage

TAICROS® has a low acute toxicity. For handling regular personal protection equipment is recommended (for details see our MSDS). If the material has to be remelted we recommend to use a water bath with a maximum temperature of 50°C. Also a drying chamber can be used, if the temperature is controlled carefully. Store under cool (<50°C) and dry conditions. TAICROS® is stabilized, nevertheless, it should not be stored longer than 12 months at ambient temperature.

Safety data, transport regulations and toxicological data are indicated in the safety data sheet.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.