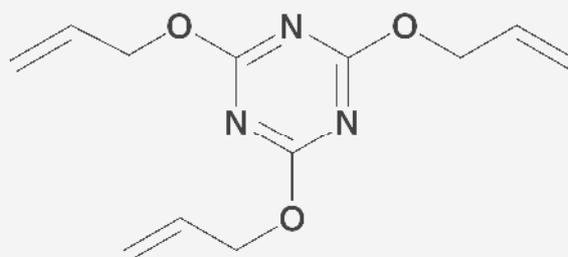


## TAC normal grade

Triallyl cyanurate

C<sub>12</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>



Synonym	2,4,6-Triallyloxy-1,3,5-triazine
CAS-No.	101-37-1
EINECS-RN.	202-936-7
Molar Mass	249.27 g/mol
Description	colorless to slightly yellowish, crystals or liquid
Packaging	plastic can (30 kg), steel drum (200 kg), bulk container (1 t), heated tank container (15 t)

### Specification

Property	Value	Unit	Method
Purity	min. 99.0	%	GC-Determination
Solidification point	min. 25.0	°C	Temperature Measurement

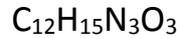
### Physical and chemical data

Property	Value	Unit
Melting point	27	°C
Boiling point at 3 hPa	149 – 150	°C (under decomp.)
Density at 30 °C	1.113	g/cm <sup>3</sup>
Vapor pressure at 100 °C	1.3	mbar
Viscosity at 30 °C	12.9	mPa/s
Flash point	166 - 170	°C
Solubility in water	0.05	g/100 g
Solubility in most organic solvents	soluble	

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

## TAC normal grade

Triallyl cyanurate



### Properties

TAC is a trifunctional monomer which can easily polymerize especially in the presence of peroxide catalysts. It is hydrolyzed by mineral acids under formation of allyl alcohol and cyanuric acid. Also in strong alkaline medium it is decomposed easily.

### Stabilization

Our TAC qualities are stabilized with a hydroquinone derivate. For crosslinking of high melting polymers an increased stabilizer content is necessary (TAC optical grade E 1200).

### Application

TAC is used as coagent in peroxide crosslinking of elastomers like HNBR, EPM, EPDM, EVA, CR, TPE's and of thermoplasts like PE and PVC. It can also be employed as coagent for electron beam crosslinking of PE and TPE's. TAC reduces cure times, it increases the crosslinking density, leads to a lower compression set and improved aging properties. Typical products are

- pipes and hoses
- sealings and gaskets
- damping materials,
- cable coatings
- electronical components,
- foams and shoe soles
- EVA encapsulating films for solar panels

### Handling and Storage

TAC 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 a water bath with a maximum temperature of 50°C. Also drying chambers can be used, if the temperature is controlled carefully. Store under cool (<40°C) and dry conditions. Although the product is stabilized, we recommend the use TAC within 18 months. After longer storage times turbidity by oligomeric material can be obtained.

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