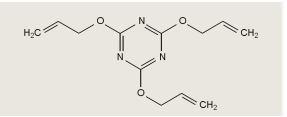
Product information

TAC NORMAL GRADE

$C_{12}H_{15}N_3O_3$



GENERAL INFORMATION

Synonyms	2,4,6-Triallyloxy-1,3,5-triazine
CAS-No.	101-37-1
EINECS-RN.	202-936-7
UN-No.	3077
Molar Mass	249.27 g/mol
Description	colourless to slightly yellowish, crystals or liquid
Packaging	plastic bucket (30 kg), steel drum (200 kg), bulk container (1t), 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 DATA

Property	Value	Unit	
Melting point	27	°C	
Boiling point at 3 hPa	149 - 150	°C	under decomposition
Density at 30 °C	1.113	g/cm^3	
Viscosity at 30 °C	12.9	mPa/s	
Vapour pressure at 100 °C	1.3	mbar	
Flash point	166 - 170	°C	
Solubility in water	0,05	g/100g	
Solubility in most organic solvents	soluble		

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

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PROPERTIES

TAC is a trifunctional monomer which can easily polymerize especially in the presence of peroxide catalysts. It is hydrolysed 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 encapsullating 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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