TRIMESOYL TRICHLORIDE (TMC)

1,3,5-Benezenetricarbonyl Trichloride

Prd. No. 120

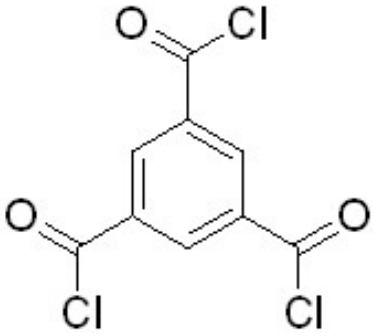
Membrane Grade

Product Data Sheet

rev. 2.291025

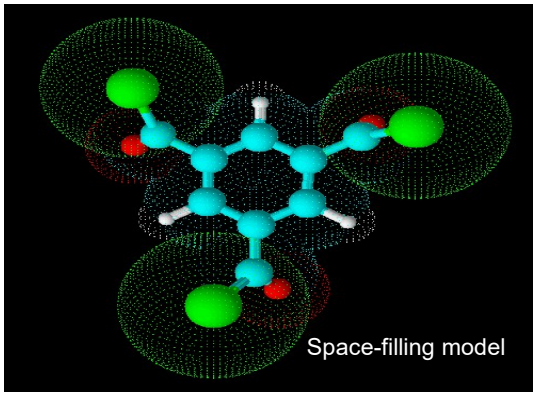
Specifications

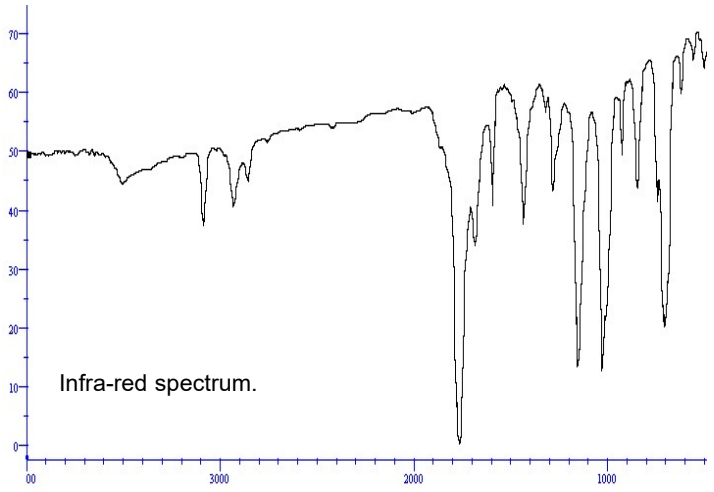
Item	Value	Method
Assay	98%, min	Titration
Appearance	Pale Yellow Solid	
Melting Point	ca. 35 deg. C	
Solubility	10 wt.% in $CHCl_3$	Gravimetric



Properties

Item	Value
CAS No.	4422-95-1
Mol. Formula	$C_9 H_3 Cl_3 O_3$
Mol. Wt.	265 grams per mole
Melting Point	35 deg. C
Flash Point	>230 deg. F
HTN	2917.39.7000
UN No.	3261
Hazard Class	8
Packaging Group	II
Proper Shipping Name	Corrosive, solid, acidic, organic n.o.s. (1,3,5-benzenetricarbonyl trichloride)
TSCA	On Inventory


Space-filling model



Infra-red spectrum.

Laxai Inc. *533 Airport Boulevard, Suite 400, Burlingame, CA 94010*

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General Information. TMC is an important building block in the production of polymer membranes useful for fluid purification via reverse osmosis (RO) techniques. An important application for TMC in water purification membranes involves interfacial polymerization of meta-phenylene diamine (MPD) with 1,3,5-benzenetricarbonyl tri-chloride producing a crosslinked polyamide (US 4,277,344). More recently, TMC has been used for the synthesis of controlled porosity polyester membranes via interfacial polymerization using di- or tri-hydroxy-aromatics as co-reactants for application in gas separation (US 5,650,479).

Packaging. TMC is available in bulk quantities in polymer-based drums as a glassy solid or in smaller HDPE-bottles (2.5 KG, net). Laxai will also undertake packaging TMC in customer provided containers, subject to appropriate technical and safety constraints. Laxai can also provide TMC formulated with other reagents or solvents per the customer's recipe.

For additional information on TMC or other materials used in the membrane synthesis, please contact your sales representative or our Technical Service Department (bd@laxai.com)

Laxai Inc is a dynamic, company dedicated to helping customers develop robust supply chains for their chemical requirements in advanced industrial and pharmaceutical manufacturing processes. We specialize in applications where:

•The needed compositions may be novel, and no manufacturing sources exist (custom synthesis),

•The compositions may have demanding purity specifications or unusual analytical requirements,

•Highly customized packaging may be required,

•Required volumes may be too large for the customer's internal capabilities,

•The incumbent supplier intends to exit the market, and a new supplier is needed,

•A secondary supply may be wanted for strategic reasons.

Laxai is a full-service chemical supplier supporting customers with capabilities in custom synthesis, process development, and full-scale production. We are staffed by business and technical professionals with significant industry experience. We work collaboratively with customers to define needs, evolve specifications and develop timelines for supply. All our work is undertaken with strict attention to confidentiality to ensure that the customers' intellectual property remains protected.

For more information about Laxai Inc. visit us on the web, www.laxai.com, or contact our business development group at michael.mcgeary@laxai.com.

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reverse side