





## DL-DITHIOTHREITOL (CLELAND'S REAGENT)

<b>PRODUCT CODE</b>	<b>R08243</b>	
<b>SYNONYMS</b>	(D.T.T.)	
<b>C.I. NO.</b>	--	
<b>CASR NO.</b>	(3483-12-3)	
<b>ATOMIC OR MOLECULAR FORMULA</b>	(CHOHCH <sub>2</sub> SH) <sub>2</sub>	
<b>ATOMIC OR MOLECULAR WEIGHT</b>	154.24	
<b>PROPERTIES</b>	---	
<b>PARAMETER</b>	<b>LIMIT</b>	
Description	White crystalline solid.	
Solubility	0.1 M solution in water is almost clear and colourless.	
Minimum Assay (Iodometric; ex SH)	98.0%	
Melting range	41°C - 44°C	
Oxidized dithioerythritol (ex absorbance at 283 nm)	Not more than 1.0%	
<b>Note(s) : Assay (if applicable) method mentioned.</b>		
<b>WARNING</b>	<p><b>Hazard statements :</b> May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.</p> <p><b>Precautionary statements</b></p> <p><b>Prevention:</b> Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.</p> <p><b>Response:</b> IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention.</p>	
	<p>IMDG Code : 9/III UN No. 3335 IATA 9</p>	
<b>Disposal:</b> Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water. The quantities greater than 10g should be dissolved in water and transferred to heavy metal waste drums for collection by specialist disposal company.		
Hazard Pictogram(s) :		
<div style="display: flex; justify-content: center; align-items: center; gap: 20px;"> <div style="text-align: center;">  GHS05         </div> <div style="text-align: center;">  GHS07         </div> </div>		

Replace Date 1 April 2023

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