

**CALOGEN**

<b>Trade Name</b>	Calogen
<b>Class</b>	Liquid fat emulsion energy supplement of long chain fatty acids
<b>Mechanism of Action</b>	Long chain triglyceride and provides additional calories for infants with faltering growth.
<b>Indications</b>	Preterm or term infants with faltering growth Infants with congenital heart disease who are fluid restricted Dumping syndrome post Nissen Fundoplication
<b>Contraindications</b>	If patient is NBM Not suitable for use as a sole source of nutrition Not for parenteral use Chylothorax Malabsorption of long chain triglycerides Cholestatic liver disease TPN induced cholestasis Biliary atresia Short bowel syndrome Long chain fatty acid oxidation disorders Steatorrhoea
<b>Supplied As</b>	Calogen liquid 0.5g/mL 200 mL bottles
<b>Dilution</b>	N/A
<b>Dosage</b>	Start with 1g/kg/day = 2mL/kg of Calogen 1mL of calogen will provide 0.5g calogen. Should be introduced gradually and increased in conjunction with advice from the Dietitian. Maximum dose usually 3g/kg/day but may be increased on the advice of the dietitian.
<b>Interval</b>	8 hourly or as directed by dietitian. Given which every feed in dumping syndrome.
<b>Administration</b>	Give via nasogastric tube prior to feeds Or via medicine teat if breast feeding, or via bottle if bottle feeding.
<b>Compatible With</b>	EBM, premature formula, standard infant formula.
<b>Incompatible With</b>	Monogen,
<b>Monitoring</b>	Feed tolerance, abdominal distension, stool output.
<b>Stability</b>	Manufacture's expiry date.

<b>Storage</b>	Store below 25°C in a dry place. Shelf life 12 months. Once opened store in refrigerator and use within 14 days.
<b>Adverse Reactions</b>	Feed intolerance, diarrhoea, abdominal distension
<b>Metabolism</b>	Long chain triglycerides (LCT) require bile flow from the liver to emulsify fat prior to absorption into the intestinal lumen. LCT are hydrolysed in the intestinal lumen as long chain free fatty acids (12 or more carbon atoms) and are adsorbed via the mucosal cells and re-esterified to triglycerides and pass into the lymph as chylomicrons. Blend of canola, sunflower and high oleic sunflower oil. 1 gram of Calogen provides 9kcal.
<b>Comments</b>	Calogen is a fat emulsion which consists of long chain triglycerides and is made from a blend of canola and sunflower oils.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Nutricia product compendium 2010</li> <li>2. Clinical Paediatrics Dietetics, Third edition, Shaw and Lawson</li> <li>3. Blackwell publishing Ltd, 2007</li> </ol>
<b>Updated By</b>	Helen Little , A Lynn July 2011 A Lynn, B Robertshawe July 2012 (re-order profile) A Lynn, M Wallenstein, N Clark (dietitian), B Robertshawe Nov 2020