

# Did you know...

## Cool Energy can provide a 100% renewable Biodegradable glycol



### Is your site committed to improving your environmental impact?

Cool Energy are proud to introduce a **100% renewable antifreeze** for your process and cooling system, which is derived from **refined vegetable extracts** that are non-toxic.

**Cool Energy Bio Glycol** is more thermally efficient than Propylene Food Safe Glycol based coolants so you can be assured of no loss in performance and it is capable of operating efficiently in lower temperatures down to  $-30^{\circ}\text{C}$ .



The Bio Glycol is available in 25, 205 and 1,000 litre containers and ready for delivery to site on a next day basis.

Please call free on **0800 840 4210** for further information and to order or, alternatively, log onto our website for further technical data at

[www.coolenergy.co.uk](http://www.coolenergy.co.uk) Thank you.



**coolenergy**

TEMPERATURE RENTAL

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# Biodegradable Glycol from Cool Energy

## Technical Information and Application Guide

Cool Energy has an ecological and environmentally friendly alternative to existing glycols and anti-freezes for you to consider when you're improving or upgrading your existing refrigeration or HVAC cooling systems.



### Properties

**Cool Energy Bio** is a clear, viscous, virtually odourless liquid. It is based on a proprietary blend of refined vegetable extracts and has a very low order of oral toxicity. Being vegetable based **Cool Energy Bio** is readily biodegradable (85% over 30 days) and thus will not remain in the environment or pollute aquifers in the event of a pipe failure.

**Cool Energy Bio** can be used in a wide range of applications where pollution and/or oral toxicity are issues, such as food & beverage cooling and water purification.

**Cool Energy Bio** contains non-toxic corrosion and scale inhibitors to protect all metals commonly found in chillers and HVAC systems, thus ensuring a long operating life and high thermal efficiency.

**Cool Energy Bio** is miscible with water in all proportions and can protect systems down to  $-30^{\circ}\text{C}$  depending on the concentration of the mix with water. Solutions containing in excess of 50% Cool Energy Bio exhibit super-cooling characteristics and do not freeze solid, alleviating the concern over possible expansion and burst damage.

### Application of Cool Energy Bio

Firstly determine the total system volume. Dose the **Cool Energy Bio** to the system according to the minimum operating or ambient temperature and the system volume. The minimum dose of **Cool Energy Bio** should not be less than 25% of the system volume and the maximum does not normally exceed 55%. We recommend the use of deionised, distilled or Cool Energy UltraPure water for this dilution. Avoid water containing high levels of calcium salts or Chlorides.

### Safety:

Cool Energy Bio is not a potential water pollutant and is biodegradable. Please refer to the material safety data sheet for more information about the product and its handling.

### Shelf Life:

Cool Energy Bio has a shelf life of up to 2 years when stored in airtight containers.

### Availability:

Cool Energy Bio is available in 25, 205 & 1000 litre containers.

Dilution Guide for Cool Energy Bio Freezing Point* °C	% v/v of Cool Energy Bio in the system	Refractive Index
-10	25%	1.355
-15	32%	1.362
-20	38%	1.367
-25	43%	1.372
-30	48%	1.380

### How to contact us

Cool Energy have local engineers nationwide who are experienced at engineering a solution and providing a first-class assessment to assist with your decision making.

So if you need a temporary cooling solution call us free on **0800 840 4210** or log onto our website [www.coolenergy.co.uk](http://www.coolenergy.co.uk)

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Birmingham	0121 326 7771
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