

Product Data Sheet

Dissolvine® GL-47-S MAX

Dissolvine® GL-47-S MAX is a solution of a high purity, versatile and readily biodegradable chelating agent in water. Dissolvine® GL-47-S MAX has a 100% bio-based carbon content.

Applications

Boosting agent for disinfecting products (with low skin irritation).
Improved detergency at high water hardness.
Hard surface cleaning performance is improved in combination with gluco(hepto)nates.
Scale removal at high pH.
Scale inhibitor in laundering and dishwashing applications.
Booster for stain removal in dish washing detergents better than citrates and phosphates.
Scum inhibitor in bathroom cleaners.
Improved cleaning & foaming in shampoo applications.
Storage stabilization of bleaching agents (perborates / percarbonates) and unsaturated alkyl chain-based surfactants.
Transport cleaners: Oil and Iron removal at high pH replacement for NTA.

Specifications

Checkpoint	Specification	Units	Method
Appearance	clear liquid		visual
Assay as GLDA-Na ₄	47.4 min	%	SMA 916.02
pH of a 1% w/v dilution	11.0 – 11.8		SMA 176.18
Color	250 max	APHA	SMA 898.06
NTA-Na ₃	< 0.10	%	SMA 883.02
Chloride	0.05 max	%	SMA 269.35

Main Characteristics

Dissolvine® GL-47-S MAX is a high purity, versatile and readily biodegradable chelate based on L-glutamic acid, a natural and renewable raw material.

Miscibility with water	: any desired ratio
Density	: approx. 1400 kg/m ³
Viscosity	: < 250 mPa.s (20°C)
Surface tension	: aq.solution, no surface active components
Electro conductivity	: approx. 4.75 mS/cm
Freezing point	: < -15°C

Sequestering values for Dissolvine® GL-47-S MAX are approximately (theoretical calculated figures):

Metal ion	pH range	mg metal/g Dissolvine® GL-47-S MAX
calcium	6 - 14	55
copper	2 - 12	85
ferric	2 - 8	75
magnesium	5 - 10	35
manganese	5 - 10	75
zinc	3 - 12	90

Environmental aspects

Readily biodegradable, non-hazardous, Ecolabel compliant
COD: 345-385 mg/g

Chemical name	Glutamic acid, N,N -diacetic acid, tetrasodium salt
Chemical formula	GLDA- Na_4
INCI name	Tetrasodium glutamate diacetate
Structure	
Mol. Weight	351.1
CAS number	51981-21-6
REACH number	01-2119493601-38-****
Packing	For information on possible packing types and sizes, please contact your nearest Nouryon representative.
Storage	Store in original packing or in PVC, PP, PE, stainless steel or bituminized tanks. Avoid contact with aluminum, zinc, nickel, copper and copper alloys. It is advised to re-test the material after three years of storage.
Further Information	For transport, handling and first aid instructions, please refer to the Safety Data Sheet, which is available on request. For samples, technical service and further information, please contact your nearest Nouryon representative or:
Internet	www.nouryon.com
Addresses	You can find the addresses of our offices at https://chelates.nouryon.com/locations/