Dissolvine®
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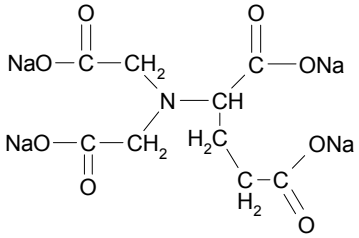
Product Data Leaflet

Dissolvine® GL-47-S

Chemical name Glutamic acid, N,N-diacetic acid, tetra sodium 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-****

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

Main characteristics

Dissolvine® GL-47-S 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	: 90-150 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 are approximately (theoretical calculated figures):

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

FPD2200-01-2 / FPD3040-01-2, Aug-2016 Update: add INCI/REACH, FPD no, address, banner, ®

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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

Environmental aspects

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

Packing

For information on possible packing types and sizes, please contact your nearest AkzoNobel 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 AkzoNobel representative or:

Internet

www.dissolvine.com

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