

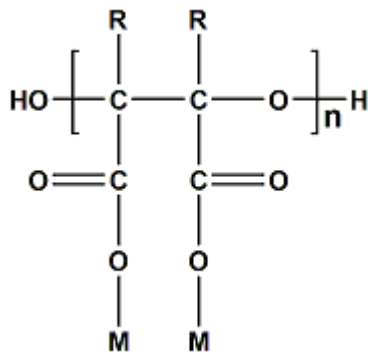
Polyepoxysuccinic Acid (PESA)

CAS No. : 51274-37-4;109578-44-1

Molecular Formula: $\text{HO}(\text{C}_4\text{H}_2\text{O}_5\text{M}_2)_n\text{H}$

Molecular weight: 400-1500

Structural Formula:



Notes: n=2-10

M--- Na⁺ or H⁺, K⁺, NH₄⁺

R---- H or C₁₋₄ alkyl

Properties:

PESA is a multivariate scale and corrosion inhibitor with non-phosphor and non-nitrogen, it has good scale inhibition and dispersion for calcium carbonate, calcium sulfate, calcium fluoride and silica scale, with effects better than that of ordinary organophosphines. When built with organophosphates, the synergism effects are obvious.

PESA has good biodegradation properties, it can be widely used in circulating cool water system in situation of high alkaline, high hardness and high pH value. **PESA** can be operated under high concentration index. **PESA** has good synergism with chlorine and other Water Treatment Chemicals.

Specification:

Items	Index		
Appearance	Colorless or amber transparent liquid	White powder	White granule
Solid content, %	40.0 min	90.0min	90.0min
Density (20°C), g/cm ³	1.30 min	-	-
pH(1% water solution)	10.0-12.0	9.0-12.0	9.0-12.0

Usage:

[PESA](#) can be used in system of oilfield refill water, crude oil dehydration and boiler;

[PESA](#) can be used in circulating cool water system of steel, petrochemical, power plant, medicine.

[PESA](#) can be used in boiler water, circulating cool water, desalination plant, and membrane separation in situation of high alkaline, high hardness, high pH value and high concentration index.

[PESA](#) can be used in detergent fields.

Package and Storage:

[PESA](#) liquid: 200L plastic drum,IBC(1000L),customers' requirement.

[PESA](#) solid: 20kg/bag,customers' requirement.

Storage for ten months in shady room and dry place.

Safety Protection:

Alkaline, Avoid contact with eye and skin, once contacted, flush with water.

Synonyms:

[PESA](#);

[polyepoxysuccinic acid](#);

[Polyepoxysuccinic Acid\(PESA\)](#);

[epoxysuccinic acid homopolymer](#);

[Polyoxirane-2,3-Dicarboxylic Acid](#)

[2,3-oxiranedicarboxylic acid homopolymer](#);

[poly\(1-oxacyclopropane-2,3-dicarboxylic acid\);](#)

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