

DOA

Di-(2-Ethylhexyl) Adipate

Technical Data Sheet

Di-(2-Ethylhexyl) Adipate (DOA)

DOA is produced by esterifying 2-Ethylhexanol and Adipic acid; it is a non-phthalate plasticizer. DOA has excellent low temperature and PVC paste resin characteristics. Its consumption is the highest among all cold-resistant plasticizers. When comparing the flexibility of finished products, DOA's volatility is greater than that of DEHP. DOA has a lower electric resistivity, which makes it suitable for the manufacturing of antistatic processed products, such as conveyor belts, floor materials, etc.

Chemical Data:

	Chemical Name	Molecular Formula	CAS No.	Class	EINECS No.
DOA	Di-(2-Ethylhexyl) Adipate	C ₂₂ H ₄₂ O ₄	103-23-1	/	203-090-1

Applications:

- > Wires & Cables
- > Leather & Clothes
- > Gloves
- > Shoes
- > Construction Materials
- > PVC Plastics
- > Food Wrapping, etc.

Physical Properties:

Item	Value	Unit
Appearance	Colorless oily liquid	/
Molecular Weight	371	g/mol
Boiling Point (at 760mmHg)	335	°C
Flash Point	205.00	°C
Viscosity (at 30°C)	10.0	cps
Freezing Point	-68.0	°C
Color	25 Max	APHA
Acid Value	0.05 Max	mg KOH/g
Ester Content	99.5 Min	Wt %
Heating Loss (125C±3°C X 3hrs)	0.20 Max	Wt%
Specific Gravity (20/20°C)	0.927±0.003	/
Refractive Index (at 25°C)	1.445±0.003	/
Water Content	0.05 Max	Wt %
Acid Value After Heating (125C±3°C X 3hrs)	0.20 Max	mg KOH/g

Standard Packing:

- Bulk Shipment
- ISO TANK
- Flexibag or 190kgs Iron Drum

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