

TECHNICAL SPECIFICATION



DIOCTYL ADIPATE

1. Basic Information

Product Name	Diethyl Adipate
Structural Formula	 The structural formula shows a central carbon atom bonded to two ethyl groups (represented by wavy lines) and two carboxylate groups (-COO-). Each carboxylate group is bonded to a carbon atom, which is further bonded to an oxygen atom and a hydrogen atom.
Molecular Formula	C ₂₂ H ₄₂ O ₄
CAS No.	103-23-1
EINECS	203-090-1
Description	Diethyl Adipate is a low-temperature-resistant plasticizer suitable for a large number of polymers, inclusive polyvinyl chloride (PVC), polyurethane (PU), rubbers, nitro-and ethylcellulose, and polyvinyl acetate (PVAC).
Chemical composition	Di-2-ethylhexyl adipate (DEHA, DOA)
Supply form	Clear liquid

2. Typical Properties

Property	Nominal Value	Unit	Test Method
Refractive index nD20	1.447	-	DIN EN ISO 6320
Acid value	Max. 0.1	Mg KOH/g	DIN EN ISO 2114
Hazen colour value	Max. 20	-	ISO 6271
Water content	Max. 0.1	%	DIN 51777
Relative density 25C	Approx. 0.925	-	Weighing
Dissolution temperature	Approx. 149	C	DIN 53 408 (based on)
Viscosity 20C	Approx. 13	mPas	Viscometer
Pour point	Approx. -65	C	Thermal
Phthalates: DEHP; DBP; BBP; DIMP ; DIDP, DNOP	Zero	n/a	n/a

3. Additional Information

Packaging	Road tanker, 190 kg drums
Storage	If stored properly, the product keeps for 2 years.
Solubility	Soluble in all common solvents; the solubility in cold water is low.