

### Product Description

Di-iso-Tri-Decyl Adipate  
CAS no 26401-35-4

Adipate esters are widely used in lubricant formulations because of their high VI, low pour point, high flash point plus good oxidation performance and thermal properties. The main use for DTDA is in biodegradable hydraulic oils. It has a relatively high viscosity for a diester, exhibits good oxidation and thermal stability, low pour point and high flash point. Generally borderline biodegradability in the OECD301B test, though formulators mix with more biodegradable esters for fully formulated hydraulic oils to pass the test.

### Sales Specifications

Properties	Units	Specifications	Typical values	Test Method
Appearance	-	Clear liquid	Clear Liquid	Visual
Colour	Hazen	100 max	-	
Ester content	%wt	99 min	-	GC
Water content	%wt	0.1 max	-	
Free alcohol content	% wt	0.1 max	-	
Density @ 20°C	g/ml	0.909 - 0.914	-	ASTM D1298
Acid Value	mgKOH/g	0.1 max	0.01	ASTM D974
Saponification value	mgKOH/g	-	225	
Refractive Index	n20D		1.457	
Flash point COC	°C	-	>200	ASTM D92
Pour point	°C	-	-57	ASTM D97
Viscosity 40°C	cSt	25 - 28	26.5	ASTM D445
Viscosity 100°C	cSt	-	5.3	ASTM D445
Viscosity Index	-	136 min		ASTM D445
<b>Boiling Range Distribution</b>				
IBP	°C	-	428	ASTM D2887
50%	°C	-	464	ASTM D2887
FBP	°C	-	482	ASTM D2887
<b>Volatility 205°C / 6 hrs / wt loss</b>	%wt	-	32.06	ASTM D972
<b>Noack</b>	%wt	-	6.00	CEC L-40-A
<b>Conradson Carbon Residue</b>	%wt	-	0.01	ASTM D189
<b>Oxidation stability</b>				
RPVOT		refer to Knowledge Bank		ASTM D2272
Dry TOST		refer to Knowledge Bank		ASTM D943
Anti-oxidant selection		refer to Knowledge Bank		ASTM D943

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