

## Product Technical Information

### DDSA

**H**<sub>HEALTH</sub>     **2**  
**F**<sub>FLAMMABILITY</sub>     **1**  
**R**<sub>REACTIVITY</sub>     **0**

**Chemical Name:**             **Dodecenyl Succinic Anhydride**  
**Chemical Formula:**        **C<sub>16</sub>H<sub>26</sub>O<sub>3</sub>**  
**Molecular Weight:**        **266.37**  
**CAS:**                             **26544-38-7**

#### Typical Properties

Appearance	Clear, light yellow liquid
Color (Gardner)	6
Refractive Index, N <sub>d</sub> <sup>20</sup>	1.470-1.480
Anhydride	98.0% Min.
Free Acid	2.0% Max.
Acid Number	410-432 mg KOH/g
Viscosity @25°C	250-475 cP
Gel Time @100°C	60 minutes

#### Features

Dodecenyl Succinic Anhydride (DDSA) is unique among the liquid anhydride hardeners. It enhances flexibility to the epoxy compound. The pot life of a typical epoxy formulation is approximately 4 hours @ 90°C. The mechanical and electrical properties of the cured formulation are superior to epoxy resins cured with di-amines or polyamides.

#### Industries

Curing agent for epoxy resins used in electronics and marine industries.



Gulf Bayport Chemicals L.P.

## Product Technical Information DDSA

### Specific Applications

Syntactic foams, coatings and conductive adhesives

### Typical formulation

Epoxy: bisphenol-A, epoxy equivalent 190

Cure Temperature: 120°C

Mix Composition: epoxy equivalent / anhydride equivalent = 1  
epoxy: 100phr  
DDSA: 140phr  
accelerator: 1phr

Gel Time (minutes) in a Gardco Stabletemp GT-STHP-110.

	<b>BDMA</b>	<b>MI</b>	<b>BTEAC</b>	<b>AC-PI</b>
<b>DDSA</b>	<b>25</b>	<b>18</b>	<b>29</b>	<b>26</b>

### Packaging

Drums: 55 gallon metal drum (450 lbs. net)  
Bulk: ISO container, tank truck, railcar

### Shelf Life

Product should be stored in a dry cool area. Containers should remain tightly sealed to avoid moisture absorption, and product hydrolysis. Under these conditions, the product shelf life is 12 months.

The information contained herein is believed to be correct and corresponds to the latest state of scientific knowledge. However, no warranty is made, either express or implied, regarding its accuracy or the results to be obtained from such information. No statement is intended or should be construed as a recommendation to infringe any existing patent.