

EXXATE® ACETATE ESTER TAIL SOLVENTS FOR COATINGS APPLICATIONS

Hallstar designs and manufactures specialty ester chemistry for polymer modification. The EXXATE® products, produced by Hallstar for over a decade, are high purity acetate esters used as cosolvents and tail solvents in a range of coating applications.

Hallstar's Acetate Esters are high performance leveling and flow aids that are desirable alternatives to standard solvents. These esters are synthesized predominantly from branched aliphatic, primary alcohols in the C6 to C13 carbon range.

Key Attributes

- Powerful solvents across a range of resins, miscible with most common organic solvents
- Slow, controlled evaporation rates with full release from paint
- Promotes gloss through improved flow and leveling
- Low surface tension for good substrate wetting
- Low water miscibility for blister prevention
- Longer pot life of moisture cure PU & improve blush resistance
- In acrylic polymerization, less initiator required, higher gloss and impact resistance



Key Applications

- Topcoat & Primer
- Maintenance & Marine
- High Solids
- Wood Lacquer
- Polymerization

Products:

- Acetate 600
- Exxate™ 800
- Exxate™ 1000
- Acetate 700
- Exxate™ 900
- Exxate™ 1300



	Hallstar Products						n-BuAc	MIBK	Arom 150	PM Ac
	Acetate 600	Acetate 700	Exxate™ 800	Exxate™ 900	Exxate™ 1000	Exxate™ 1300				
	C6 Ac	C7 Ac	C8 Ac	C9 Ac	C10 Ac	C13 Ac				
Molecular Weight	144	158	172	186	200	242	116	100	n/a	132
Specific Gravity	0.874	0.874	0.875	0.873	0.873	0.879	.0883	0.802	0.895	0.966
Evaporation Rate	0.11	0.05	0.033	.012	0.006	0.001	1	1.66	0.06	0.33
Vapor Pressure (20C)	1.4	0.8	0.75	0.24	0.09	0.03	1.39	16	0.08	2.8
Surface Tension	25	26	26	27	27.5	28	25.3	23.6	30.5	28.9
Water Sol. (% wt)										
Ester In Water	0.02	0.01	0.02	0.02	0	0	0.7	1.8	0	16
Water in Ester	0.66	0.58	0.35	0.29	0.26	0.2	1.9	1.9	0	3
Electrical Resist (MΩ)	High	>20	>20	>20	>20	>20	>20	0.4	>20	5
Odor	Sweet Ester	Sweet Ester	Mild Ester	Mild Ester	Mild Ester	Nearly Odorless	Sweet Ester	Acetone	Aromatic	Ether
HAPS Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes
Non-VOC (VP <0.1)	No	No	No	No	Yes*	Yes*	No	No	Yes	No
Solubility (Hansen)										
Dispersion	7.8	7.8	7.8	7.9	7.9	8.2	7.7	7.5	8.7	7.6
Polar	1.4	1.3	1.2	1.0	0.8	0.4	1.8	3	0.3	2.7
H-Bond	3.0	2.7	2.4	2.4	2.0	1.4	3.1	2	0.7	4.8

* LVP-VOC Exempt