

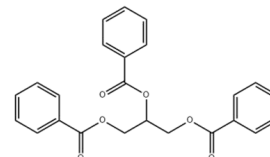
SPECIALTY BENZOATE ESTERS

HIGH MOLECULAR WEIGHT. LOW VOLATILITY. IMPROVED PERFORMANCE

Hallstar is a leading global provider of specialty chemical solutions with decades of esterification experience. Our specialty benzoate esters are designed with higher molecular weight and increased molecular branching, resulting in significantly lower volatility and reduced migration compared to commodity benzoates.

Uniplex™ 260 (Glyceryl Tribenzoate, GTB)

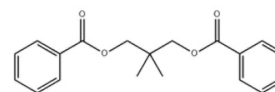
- Film former, processing aid, and modifier for a wide range of polymers and a heat-activated plasticizer for hot melt adhesives made from PVA, polyester, and acrylic resins. Available in liquid and solid forms.
- CAS # 68052-23-3



Molecular Weight: 404
Melting Point: 72°C

Uniplex™ 512 (Neopentyl Glycol Dibenzoate, NPG DB)

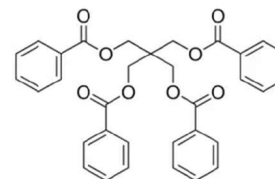
- Low melt, waxy-solid, plasticizer with low volatility, compatibility in acrylic, and excellent UV stability. Used as hot melt equipment cleanout (polyester and polyether), adhesives, and slip additives.
- CAS # 4196-89-8



Molecular Weight: 312
Melting Point: 49°C

Uniplex™ 552 (Pentaerythritol Tetrabenzoate, PETB)

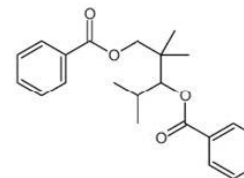
- Solid polymer modifier used in heat activated adhesives. FDA approved (21 CFR 175.105). It is recommended for high heat activation temperature products. Also used as additives for ink jet printing, electronic manufacturing (PBCs).
- CAS # 4196-86-5



Molecular Weight: 552
Melting Point: 103°C

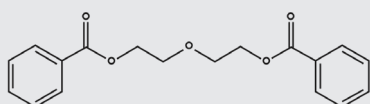
Uniplex™ 354 (2,2,4-Trimethyl-1,3-Pentanediol or TMP Benzoate)

- Non-phthalate plasticizer that possesses high solvating characteristics for adhesives, caulks, sealants, and PVC plastisol. Available in liquid form.
- CAS # 68052-23-3

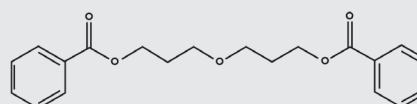


Molecular Weight: 354
Melting Point: 10°C

Commodity Structures for Reference



Diethylene glycol dibenzoate



Dipropylene glycol dibenzoate

WHY HALLSTAR VS. COMMODITY BENZOATES

	Commodity Benzoates		Specialty Uniplex™ Benzoates				
Trade Name	N/A	N/A	Uniplex™ 260	Uniplex™ 354	Uniplex™ 512	Uniplex™ 552	Uniplex™ 641
Chemical ID	DEGDB	DPGDB	GTB	TMP DB	NPG DB	PE TetraB	CHDM DB
Physical Form	Liquid	Liquid	Solid	Liquid	Solid	Solid	Solid
CAS #	120-55-8	27138-31-4	614-33-5	68052-23-3	4196-89-8	4196-86-5	35541-81-2
Boiling Point (°C)	236	232	548	346	436	684	472
Performance Attributes							
Volatility	High		Low				
Molecular Structure	Linear		Branched				
Migration	High		Low				

ADDITIONAL BENZOATE ESTERS

Uniplex™ 280 CG (Sucrose Benzoate)

Plasthall® BUB (Butyl Benzoate)

REQUEST A SAMPLE

Contact your Hallstar account manager

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