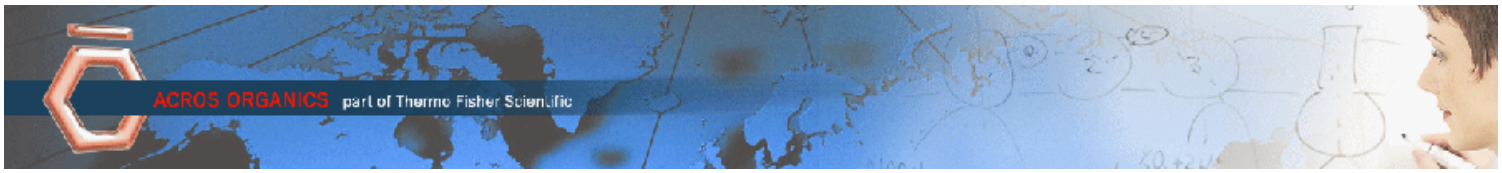

Sodium triacetoxyborohydride, 97%

General

Product Name	Sodium triacetoxyborohydride
CAS RN	56553-60-7
ACD Code	MFCD00012211
Structure	
Molecular Formula	C6 H10 B Na O6
Molecular weight	211.94

Pack size

Catalog	Qty / UM	Price (EUR)	
291820250	25 GR	48.20	Order Check stock
291821000	100 GR	115.30	Order Check stock
291825000	500 GR	378.40	Order Check stock

Physical

Melting Point (°C) 114 - 118

Safety

GHS Pictogram

GHS Signal Word: Danger

GHS H statement:
H315: Causes skin irritation
H318: Causes serious eye damage
H260: In contact with water releases flammable gases which may ignite spontaneously

GHS P statement:

P261:	Avoid breathing dust/fume/gas/mist/vapors/spray
P302+ P352:	IF ON SKIN: Wash with plenty of soap and water
P280:	Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P223:	Keep away from any possible contact with water, because of violent reaction and possible flash fire
P402:	Store in a dry place

Hazard:
F: Highly flammable
XI: Irritant

Risk:
15: Contact with water liberates extremely flammable gases.
38: Irritating to skin.
41: Risk of serious damage to eyes.

Categories

Functional Reagents > Reduction > Borohydrides

Applications

Function	Transformation	Type	Caveat	Reference
Reagent	Reduction			
Reagent	Reduction		Review.	OPP 1985, 17, 317
Reagent	Reduction	beta-Hydroxyketones to diols		JACS 1988, 110, 3560
Reagent	Reduction	Aldehyde to alcohol	Aldehyde to alcohol in the presence of a ketone.	CC 1975, 535
Reagent	Reduction	Reductive amination	Reductive amination of carbonyls.	JOC 1996, 61, 3849
Reagent	Reduction	Stereoselective reduction of ketones		TL 1983, 273

Other

Infrared Show

Parameter		
Solubility	Solubility in water: reacts Solubility in other solvents: soluble in THF, acetonitrile, 1,2-dichloroethane	
Origin	synthetic	

	References: Literature	Reductive amination of aldehydes and ketones by using sodium triacetoxyborohydride: Ahmed F. Abdel-Magid et al., Tetrahedron Letters, 1990, 31(39), 5595-8.
	References: Literature	Ahmed F. Abdel-Magid et al., Synlett, 1990, 537-9.
	References: Literature	Ahmed F. Abdel-Magid et al., J. Org. Chem., 1996, 61(11), 3849-62.
	References: Literature	Ahmed F. Abdel-Magid et al., Org. Proc. Res. & Develop., 2006, 10(5), 971-1031; review.
	Reference: Fieser	06,553; 12,453; 13,283; 16,309
	Reference: Merck	15,8822
3D model	Show	