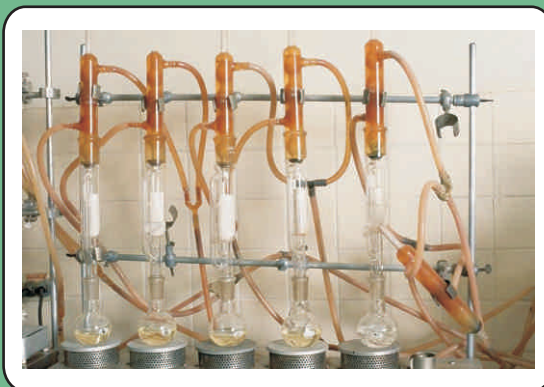




**PRABHAT  
CHEMIORGANICS  
LIMITED**

ISO 9001 : 2000 CERTIFIED

Our R&D activities are carried out by a team of skilled and dedicated researchers and scientists who are engaged in developing new routes of synthesis to synthesize intermediates.



PCL have equipped ourselves to carry out a number of complex reactions starting at lab scale to commercial quantities. Our major strength lies in manufacturing intermediates for antimigraine.



- Bromination
- Grignard
- Nitration
- Reduction
- Diazotization
- Oxidation
- Friedel Craft's
- Esterification
- Hydrolysis
- Acetylation
- Condensation
- Addition
- Suzuki Coupling
- Thionation

PCL well equipped laboratory ensures adherence to the most stringent analytical compliance to international standards. In-process quality checks during manufacturing and independent quality assurance, further enhance PCL quality policy.



**PCL** holds the promise of creating extraordinary value for customers. It is the constant focus on consistent quality products and systems that has enabled **PCL** to provide the guarantee of reliability.





# PRABHAT CHEMIOORGANICS LIMITED

Manufacturer of Bromine Compounds & Phase-Transfer Catalysts



## Bulk Drug Intermediates

Bromobenzene	[108-86-1]
m-Bromo Anisole	[2398-37-0]
o-Chlorobromobenzene	[694-80-4]
p-Chlorobromobenzene	[106-39-8]
o-Dibromobenzene	[583-53-9]
m-Dibromobenzene	[108-36-1]
p-Dibromobenzene	[106-37-6]
2-Bromo Toluene	[95-46-5]
3-Bromo Toluene	[591-17-3]
4-Bromo Toluene	[106-38-7]
2-Bromo Benzoic Acid	[88-65-3]
3-Bromo Benzoic Acid	[585-76-2]
4-Bromo Benzoic Acid	[586-76-5]
3-Bromo Benzaldehyde	[3132-99-8]
4-Bromo Nitrobenzene	[586-78-7]
1-Bromo 3-Chloro Propane	[109-70-6]
2,5-Dibromo Nitrobenzene	[3460-18-2]
2,5-Dibromo Aniline	[3638-73-1]
Cis-Bromobenzoate	[61397-56-6]
Ethylene Di Bromide	[106-93-4]
Ethyl Bromide	[74-96-4]
Di Methyl Amino Propyl Chloride HCl	[5407-04-5]
Pyridine Hydro Bromide	[18820-82-1]

## Brominating Agent

Pyridinium Bromide Perbromide	[39416-48-3]
Tetra Butyl Ammonium Tribromide	[38932-80-8]
Tri Phenyl Phosphonium Hydrobromide	[6399-81-1]
Tri Phenyl Phosphonium Dibromide	[1034-39-5]
HBr Gas In Glacial Acetic Acid – 33%	[10035-10-6]
Hydrobromic Acid 48% & 62%	[10035-10-6]

## Phase Transfer Catalysts

### Quaternary Ammonium Compounds

Tetra Butyl Ammonium Bromide	[1643-19-2]
Tetra Butyl Ammonium Hydrogen Sulphate	[32503-27-8]
Tetra Ethyl Ammonium Bromide	[71-91-0]
Tri Ethyl Benzyl Ammonium Chloride	[56-37-1]
Tri Ethyl Benzyl Ammonium Bromide	[5197-95-5]
Tri n-Butyl Benzyl Ammonium Chloride	[23616-79-7]

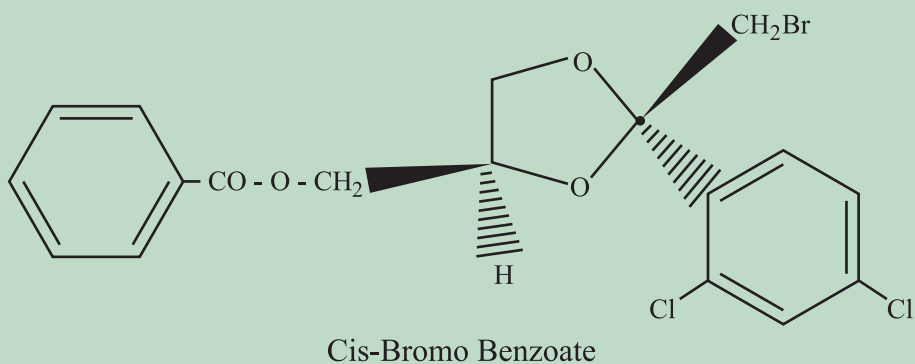
### Quaternary Phosphonium Compounds

Ethyl Triphenyl Phosphonium Bromide	[1530-32-1]
Butyl Triphenyl Phosphonium Bromide	[1779-51-7]
n-Propyl Triphenyl Phosphonium Bromide	[15912-75-1]

## Inorganic Bromides

Sodium Bromide	[7647-15-6]
Potassium Bromide	[7758-02-3]
Lithium Bromide	[7550-35-8]
Ammonium Bromide	[12124-97-9]
Magnesium Bromide	[13446-53-2]
Copper Bromide	[7787-70-4]





## PRABHAT CHEMIORGANICS LIMITED

### REGD. OFFICE :

228, Sarita, Prabhat Ind. Estate,  
W. E. Highway, Near Check Post,  
DAHISAR (E), MUMBAI - 400 068 (INDIA)  
**Tel : 91-22-2896 3542 / 3543 / 0237**  
**Fax : 91-22-2896 5669**

### MANUFACTURING UNIT

Plot No. 2406/2408, Road No. 24,  
Phase I, G.I.D.C. Ind. Estate,  
Sachin - 394 230, Dist. Surat, Gujarat, India  
**Tel : 91-261-239 7590**  
**Fax : 91-261-239 7971**

Website : [www.prabhatchem.com](http://www.prabhatchem.com)  
E-mail : [contact@prabhatchem.com](mailto:contact@prabhatchem.com)



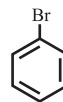
# DETAIL SPECIFICATION

ISO 9001 : 2000 Certified

# BULK DRUG INTERMEDIATES

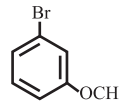
## Bromobenzene

Cas No : [108-86-1]  
Boiling Range : 155°C-157°C  
Assay (By GLC) : 99 %



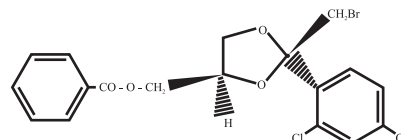
## m-Bromoanisole OR 3-Bromoanisole

Cas No : [2398-37-0]  
Boiling Range : 215.6°C  
Assay (By GLC) : 99%+



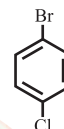
## Cis-Bromobenzoate

Cas No : [61397-56-6]  
Melting Range : 117 °C-120°C  
Assay (by GLC) : 98%+



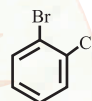
## p-Chlorobromobenzene OR 4- Chlorobomobnzene

Cas : [106-39-8]  
Melting Range : 66°C - 68°C  
Boiling Range : 196°C  
Assay (By GLC) : 99%+



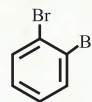
## o-Chlorobromobenzene OR 2- Chlorobomobnzene

Cas : [694-80-4]  
Boiling Range : 204°C  
Assay (By GLC) : 99%+



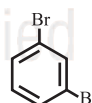
## o-Dibromobenzene OR 2-Dibromobenzene

Cas : [583-53-9]  
Boiling Range : 224°C  
Assay (By GLC) : 99%+



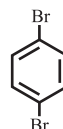
## 3-Dibromobenzene OR m-Dibromobenzene

Cas No : [108-36-1]  
Boiling Range : 218°C to 219°C  
Assay (by GLC) : 99% +



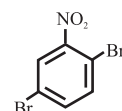
## p-Dibromobenzene OR 4-Dibromobenzene

Cas No. : [106-37-6]  
Melting Range : 88°C-90°C  
Assay(By GLC) : 99%



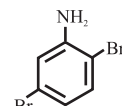
## 2,5 Dibromonitrobenzene OR o-Nitro p-dibromobenzene

Cas No. : [3460-18-2]  
Melting Range : 82°C-84°C  
Assay(By GLC) : 99%+



## 2,5 Dibromoaniline OR o-Amino p-di-bromobenzene

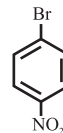
Cas No. : [3638-73-1]  
Melting Range : 51°C -53°C  
Assay(by GLC) : 98%+



# BULK DRUG INTERMEDIATES

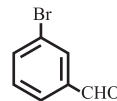
## 4-Nitrobromobenzene OR p-Nitrobromobenzene

Cas No. : [586-78-7]  
Melting Range : 125°C -127°C  
Assay(by GLC) : 99%+



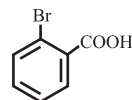
## m-Bromobenzaldehyde OR 3-Bromobenzaldehyde

Cas : [3132-99-8]  
Boiling Range : 229°C  
Assay (by GLC) : 98.5%



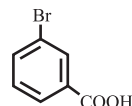
## 2-Bromobenzoic acid OR o-Bromobenzoic acid

Cas No : [88-65-3]  
Melting Range : 147°C -149°C  
Assay (by GLC) : 98%



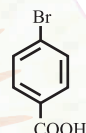
## 3-Bromobenzoic acid OR m-Bromobenzoic acid

Cas No : [585-76-2]  
Melting Point : 155°C-158°C  
Assay (by GLC) : 98%



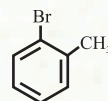
## 4-Bromobenzoic acid OR p- Bromobenzoic acid

Cas No : [586-76-5]  
Melting Range : 253°C-255°C  
Assay (by GLC) : 98%



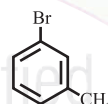
## 2-Bromotoluene OR o-Bromotoluene

CAs No : [95-46-5]  
Boiling Range : 181°C-183°C  
Assay (by GLC) : 99%



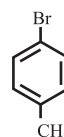
## 3-Bromotoluene OR m-Bromotoluene

Cas No : [591-17-3]  
Boiling Range : 183°C-184°C  
Assay (by GLC) : 98%



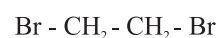
## 4-Bromotoluene OR p-Bromotoluene

Cas No : [106-38-7]  
melting Range : 27°C-29°C  
Boiling Range : 183°C-184°C  
Assay (by GLC) : 99%



## Ethylene di bromide OR 1,2 Dibromoethane

Cas No : [106-93-4]  
Boiling Range : 131°C-132°C  
Assya (by GLC) : 99%



## Ethylbromide OR 1-Bromoethane

Cas No : [74-96-4]  
Boiling Range : 37°C-39°C  
Assay (by GLC) : 99%



# BULK DRUG INTERMEDIATES



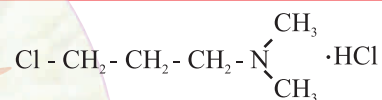
## 1-Bromo-3-chloropropane (BCP) OR Bromochloropropane

Cas No : [109-70-6]  
Boiling Range : 142°C-145°C  
Assay (by GLC) : 98.5%



## Di methyl amino propyl chloroide HCl (65% in water)

Cas No. : [5407-04-5]  
Assay(titration) : 65%



## Pyridine Hydro Bromide

Cas No. : [18820-82-1]  
Assay (titration) : 99%



ISO 9001 : 2000 Certified

# PHASE TRANSFER CATALYST QUATERNARY AMMONIUM COMPOUND

## Tetra butyl ammonium bromide(TBAB)

Cas No.	: [1643-19-2]	
Melting Range	: 100°C -104°C	$[\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2]_4 \text{N}^+ \text{Br}^-$
Assay (titration)	: 99%+	

## Tetra butyl ammonium hydrogen sulphate(TBAHS)

Cas No.	: [32503-27-8]	$[\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2]_4 \text{N}^+ \text{HSO}_4^-$
Melting Range	: 168°C -171°C	
Assay (titration)	: 99%+	

## Tetra ethyl ammonium bromide(TEAB)

Cas No	: [71-91-0]	$[\text{CH}_3 - \text{CH}_2]_4 \text{N}^+ \text{Br}^-$
Melting Range	: 258°C-286°C dec	
Assay (titration)	: 98%	

## Tri ethyl benzyl ammonium chloride(TEBAC)

Cas No	: [56-37-1]	
Melting Range	: 190°C-193°C	$[\text{CH}_3 - \text{CH}_2]_3 \text{N}^+ - \text{CH}_2\text{Ph}$
Assay (titration)	: 99%	$\text{Cl}^-$

## Benzyl tri ethyl ammonium bromide

Cas No	: [5197-95-5]	$[\text{CH}_3 - \text{CH}_2]_3 \text{N}^+ - \text{CH}_2\text{Ph}$
Melting Range	: 199°C-201°C	$\text{Br}^-$
Assay (titration)	: 99%	

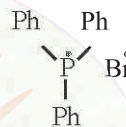
## Tri-n-butyl- benzyl ammonium chloride

Cas No	: [23616-79-7]	$[\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2]_3 \text{N}^+ - \text{CH}_2\text{Ph}$
Melting Range	: 175°C dec	$\text{Cl}^-$
Assay (titration)	: 98%	

# PHASE TRANSFER CATALYST QUATERNARY PHOSPHONIUM COMPOUND

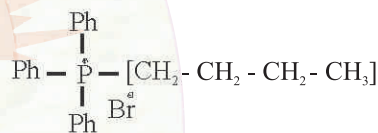
## Ethyl tri phenyl phosphonium bromide

Cas No : [1530-32-1]  
Melting Point : 206°C -208°C  
Assay (titration) : 98%



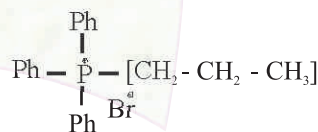
## Butyl tri phenyl phosphonium bromide

Cas No : [1779-51-7]  
Melting Point : 240°C  
Assay (titration) : 98%



## n-Propyl triphenyl phosphonium bromide

Cas No : [15912-75-1]  
Melting Point : 235°C-238°C  
Assay (titration) : 99%

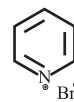


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# BROMINATING AGENT

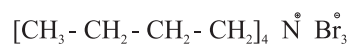
## Pyridiniumbromide perbromide

Cas No : [39416-48-3]  
 Melting Range : 132°C-134°C  
 Assay(titration) : 99%



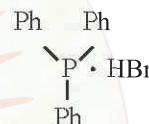
## Tetra butyl ammonium tri bromide

Cas No : [38932-80-8]  
 Melting Range : 74°C-76°C  
 Assay (titration) : 98.5%



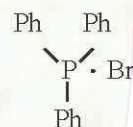
## Tri phenyl phosphonium hydrobromide

Cas No : [6399-81-1]  
 Melting Range : 198°C-200°C  
 Assay (by titration) : 99%



## Tri phenyl phosphine dibromide

Cas No : [1034-39-5]  
 Melting Range : 250°C dec  
 Assay (by titration) : 98%



## HBr in Aceticacid 30% to 33%

Cas no. : [10035-10-6]  
 Density : 1.34 to 1.38 gm/ml  
 Assay (by titration) : 30 % to 33 %



## HBr 48% to 62%

Cas no. : [10035-10-6]  
 Density : 1.48 to 1.62 gm/ml  
 Assay (by titration) : 48 % to 62 %



# INORGANIC BROMIDES

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## Sodiumbromide

Cas No : [7647-15-6]  
Assay (titration) : 99% NaBr

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## Pottasiumbromide

Cas No : [7758-02-3] KBr  
Assay (titration) : 99%

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## Lithiumbromide

Cas No : [7550-35-8] LiBr  
Assay (titration) : 98%

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## Ammoniumbromide

Cas No : [12124-97-9] NH<sub>4</sub>Br  
Assay (titration) : 98%

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## Magnesiumbromide

Cas No : [13446-53-2] MgBr<sub>2</sub>·6H<sub>2</sub>O  
Melting Range : 172°C  
Assay (titration) : 98%

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## Copper Bromide

Cas No : [7787-70-4] CuBr<sub>2</sub>  
Assay (titration) : 98%

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