



Padalsalai's Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padalsalai's NEWS - Group
https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
- Padalsalai's Channel - Group
<https://t.me/padasalaichannel>
- Lesson Plan - Group
<https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw>
- 12th Standard - Group
https://t.me/Padalsalai_12th
- 11th Standard - Group
https://t.me/Padalsalai_11th
- 10th Standard - Group
https://t.me/Padalsalai_10th
- 9th Standard - Group
https://t.me/Padalsalai_9th
- 6th to 8th Standard - Group
https://t.me/Padalsalai_6to8
- 1st to 5th Standard - Group
https://t.me/Padalsalai_1to5
- TET - Group
https://t.me/Padalsalai_TET
- PGTRB - Group
https://t.me/Padalsalai_PGTRB
- TNPSC - Group
https://t.me/Padalsalai_TNPSC



Praise the Lord

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Mount Road, Carmel Nagar, Kallakurichi – 606 202



QUICK REFERENCE

12th standard organic chemistry

important compounds of Chemical properties of

Phenol, Benzene diazonium chloride, Glycerol,

Benzaldehyde, Glycol, Diethyl ether

Padasalai.Net



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[Youtube / TechieTamilan](#)

QUICK REFERENCE

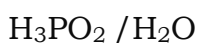
PHENOL CHEMICAL PROPERTIES

PHENOL	Zn / Δ	→ benzene + ZnO
	NH ₃ / anhyd. ZnCl ₂ / Δ	→ Aniline
	CH ₃ COCl / NaOH / Py	→ Phenyl ethanoate + HCl
	C ₆ H ₅ COCl / NaOH / Py	→ Phenyl benzoate + HCl
	NaOH / CH ₃ I / Δ	→ Anisole + NaI
	K ₂ Cr ₂ O ₇ / Con. H ₂ SO ₄	→ 1,4- benzoquinone
	3H ₂ / Ni / 160° C	→ Cyclohexanol
	HNO ₂ / 278K	→ p-nitroso phenol
	20% HNO ₃ / 298K	→ O-Nitro phenol + p-nitro phenol
	Con.H ₂ SO ₄ / Con.HNO ₃ / 298K	→ 2,4,6- trinitrophenol(picric acid)
	Con.H ₂ SO ₄	→ O-phenol sulphonic acid + p-phenol sulphonic acid
	3Br ₂ / H ₂ O	→ 2,4,6- tribromophenol + 3HBr
	Br ₂ / CCl ₄ / 278k	→ o-bromo phenol + p- bromo phenol
	NaOH / CO ₂ / 400K / 4- 7 bar / H ⁺	→ Salicylic acid
	NaOH / CHCl ₃ / H ⁺	→ Salicylaldehyde
	phthalic anhydride / Con.H ₂ SO ₄ / Δ	→ Phenolphthalein
	C ₆ H ₅ N ₂ Cl / NaOH / 273-278K	→ P- hydroxyl azobenzene

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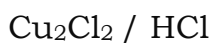
C ₆ H ₅ N ₂ Cl	Cu ₂ Cl ₂ / HCl	→ Chlorobenzene
	Cu ₂ Br ₂ / HBr	→ Bromobenzene
	CuCN / KCN	→ Cyanobenzene
	Cu / HCl	→ Chlorobenzene
	Cu / HBr	→ Bromobenzene
	KI	→ Iodobenzene
	HF ₄ / Δ	→ Fluorobenzene
	H ₂ O / Δ 283K	→ Phenol
	HF ₄ / NaNO ₂ / Cu / Δ	→ Nitrobenzene
	C ₆ H ₆ / NaOH	→ Biphenyl
	CH ₃ COOH	→ Benzoic acid
	SnCl ₂ + HCl	→ Phenyl hydrazine



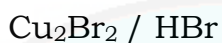
→ Benzene



→ Benzene



→ Chlorobenzene



→ Bromobenzene



→ Cyanobenzene



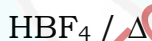
→ Chlorobenzene



→ Bromobenzene



→ Iodobenzene



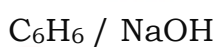
→ Fluorobenzene



→ Phenol



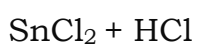
→ Nitrobenzene



→ Biphenyl



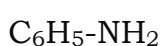
→ Benzoic acid



→ Phenyl hydrazine



→ P-hydroxy azobenzene



→ P-aminoazobenzene



→ 2-phenylazo-4-methyl phenol

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QUICK REFERENCE**BENZALDEHYDE CHEMICAL PROPERTIES**

C₆H₅CHO	CH ₃ CHO / dil NaOH	→ cinnamaldehyde
	CH ₃ COCH ₃ / dil NaOH	→ Benzylidene acetone
	C ₆ H ₅ CHO / NaOH	→ Benzylalcohol + sodiumbenzoate
	HCHO / NaOH	→ benzyl alcohol + sodium formate
	alcKCN / Δ	→ Benzoin
	Acetic anhydride / CH ₃ COONa	→ Cinnamic acid
	Malonic acid / Pyridine	→ Cinnamic acid
	Aniline / H ⁺ / Δ	→ Schiff's base
	N,N-Dimethyl aniline / con H ₂ SO ₄	→ Malachite green dye
	conc.FeCl ₃ /Cl ₂	→ m-chlorobenzaldehyde
	Cl ₂ / No Catalyst	→ Benzoyl chloride
	Con.H ₂ SO ₄ / Con.HNO ₃	→ m-nitrobenzaldehyde
	Con.H ₂ SO ₄	→ m- benzaldehyde sulphonic acid

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QUICK REFERENCE

GLYCEROL CHEMICAL PROPERTIES

GLYCEROL	$\text{HNO}_3/\text{H}_2\text{SO}_4$	→ 1,2,3 trinitroxy propane
	KHSO_4/Δ	→ acrolein (prop-2-enal)
	(O) dil. HNO_3	→ glyceric acid + tartronic acid
	(O) Con. HNO_3	→ glyceric acid
	(O) $\text{Bi}(\text{NO}_3)_3$	→ mesoxxlic acid
	$\text{Br}_2/\text{H}_2\text{O}$ (or) NaOBr (or) Fenton's reagent $(\text{FeSO}_4 + \text{H}_2\text{O}_2)$	→ glycerose (glyceraldehyde + dihydroxy acetone)
	HIO_4 (or) (LTA) Lead tetra acetane $(\text{Pb}(\text{CH}_3\text{COO})_4)$	→ formaldehyde + formic acid
	KmnO_4	→ oxalic acid

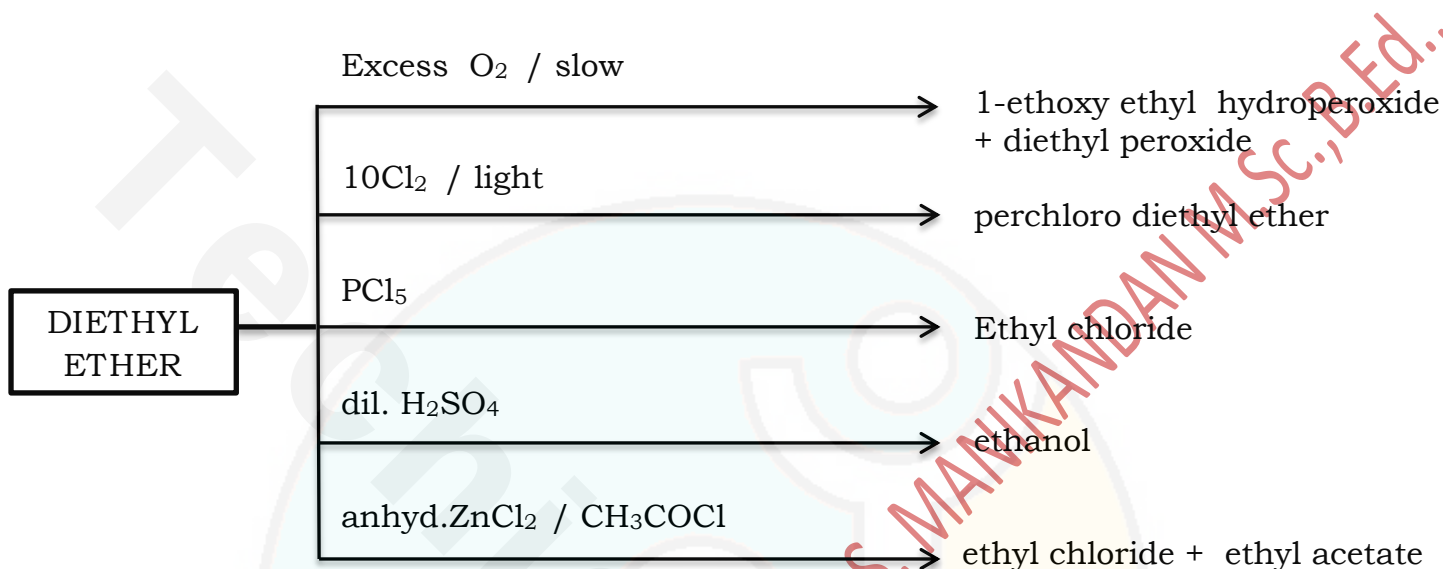
QUICK REFERENCE

GLYCOL CHEMICAL PROPERTIES

GLYCOL	PI_3	→ Ethene
	$2\text{HNO}_3 / \text{Con. H}_2\text{SO}_4$	→ 1,2 Dinitroxyethene (dinitroglycol)
	$773\text{K} / \Delta$	→ 1,2 epoxyethene (oxirane)
	anhyd. ZnCl_2	→ Ethanal
	$\text{Con. H}_2\text{SO}_4$	→ 1,4 dioxane
	$\text{HIO}_4 / \text{H}^+$	→ Formaldehyde
	HNO_3 (or) KMnO_4	→ Oxalic acid

QUICK REFERENCE

DIETHYL ETHER CHEMICAL PROPERTIES



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“Life is nothing without chemistry.”

All are made up of atoms and molecules”

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