**PEMBUATAN LARUTAN BUFFER NA PHOSPHAT 0.2** **M**

**Mr Dibasik dan Monobasik**

* Dibasik atau Di-Natrium Hidrogen Phosphat (Na2HPO4)

|  |
| --- |
| $$Mr Na\_{2}HPO\_{4}=\left(23.2\right)+\left(1.1\right)+\left(31.1\right)+\left(16.4\right)$$ |
|  | $$=\left(46\right)+\left(1\right)+\left(31\right)+\left(64\right)$$ |
|  | $$=142$$ |

* Monobasik atau Natrium Dihidrogen Phosphat (NaH2PO4)

|  |
| --- |
| $$Mr NaH\_{2}PO\_{4}=\left(23.1\right)+\left(1.2\right)+\left(31.1\right)+\left(16.4\right)$$ |
|  | $$=\left(23\right)+\left(2\right)+\left(31\right)+\left(64\right)$$ |
|  | $$=120$$ |

**Rumus Molaritas Dibasik dan Monobasik**

* Dibasik atau Di-Natrium Hidrogen Phosphat (Na2HPO4)

|  |  |  |  |
| --- | --- | --- | --- |
| Diketahui | Mr | = | 142 |
|  | M | = | 0.2 M |
|  | V | = | 100 mL |

|  |  |
| --- | --- |
| $$M$$ | $=\frac{gram}{Mr}$ ×$\frac{1000}{V}$ |
| $$Gram$$ | $$=M ×Mr ×\frac{V}{1000}$$ |
|  | $$=0.2 ×142 ×\frac{100}{1000}$$ |
|  | $$=2,84 gr$$ |

* Monobasik atau Natrium Dihidrogen Phosphat (NaH2PO4)

|  |  |  |  |
| --- | --- | --- | --- |
| Diketahui | Mr | = | 120 |
|  | M | = | 0.2 M |
|  | V | = | 100 mL |

|  |  |
| --- | --- |
| $$M$$ | $=\frac{gram}{Mr}$ ×$\frac{1000}{V}$ |
| $$Gram$$ | $$=M ×Mr ×\frac{V}{1000}$$ |
|  | $$=0.2 ×120 ×\frac{100}{1000}$$ |
|  | $$=2,4 gr$$ |

**PEMBUATAN LARUTAN BUFFER TRIS-HCl 0.2** **M**

**Mr Tris**

* Tris (C4H11NO3)

|  |
| --- |
| $$Mr C\_{4}H\_{11}NO\_{3}=\left(12.4\right)+\left(1.11\right)+\left(14.1\right)+\left(16.3\right)$$ |
|  | $$=\left(48\right)+\left(11\right)+\left(14\right)+\left(48\right)$$ |
|  | $$=121$$ |

**Rumus Molaritas Tris (C4H11NO3)**

* Tris (C4H11NO3)

|  |  |  |  |
| --- | --- | --- | --- |
| Diketahui | Mr | = | 121 |
|  | M | = | 0.2 M |
|  | V | = | 100 mL |

|  |  |
| --- | --- |
| $$M$$ | $=\frac{gram}{Mr}$ ×$\frac{1000}{V}$ |
| $$Gram$$ | $$=M ×Mr ×\frac{V}{1000}$$ |
|  | $$=0.2 ×120 ×\frac{100}{1000}$$ |
|  | $$=2,42 gr$$ |