

Med pH and osmol list (Submitted by)(Reference)(Comments)

IV Medication	Notes/Reference
acyclovir (zovirax)	<p>Submitted by: Lynda DeLuca RN Reference: http://reference.medscape.com/drug/zovirax-acyclovir-342601#11 Comments: IV Incompatibilities Blood products & protein-containing solutions Additive: dobutamine, dopamine, meropenem(?) Syringe: caffeine Y-site: amifostine, amsacrine, aztreonam, cefepime, dobutamine, dopamine, fludarabine, foscarnet, gemcitabine, idarubicin, levofloxacin, morphine sulfate(?), ondansetron, piperacillin/tazobactam, sargramostim, vinorelbine IV Compatibilities Additive: fluconazole Y-site (partial list): allopurinol, ampicillin, cefazolin, cimetidine, diphenhydramine, fluconazole, heparin, linezolid, lorazepam, MgSO4, KCl, propofol, TMP-SMX, vancomycin IV Preparation Reconstitution: concentrations >10 mg/mL increase the risk of phlebitis; usual recommended concentration is NMT 7 mg/mL in D5W IV Administration For IV infusion only Avoid rapid infusion Infuse over 1 hr at a constant rate to prevent renal damage Maintain adequate hydration of pt Check for phlebitis & rotate infusion sites Storage Reconstituted solutions remain stable for 24 hr at room temp Avoid refrigerating reconstituted solutions to prevent precipitation</p>
aldesleukin	<p>Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:</p>
amikacin	<p>Submitted by: Cynthia Easterling Reference: adesanmi O, Stranz M Comments: adesanmi O, Stranz M</p>
aminocaproic acid	<p>Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference</p>

	Comments:
aminophylline	Submitted by: Lynda DeLuca RN Reference: http://www.ctins.org/Marc%20Stranz%20Drug%20Chart%20pH%20Osmol%202003.pdf 1. Trissel LA Handbook on Injectable Drugs 11th Edition ASHP Bethesda, MD 2001 2. Gahart BL, Nazareno AR 2002 Intravenous Medications 18th Edition Mosby St Louis 2001 3. Manufacturers Patient Package Inserts Comments:
amiodarone	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
amobarbital	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
amphotericin b	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: About pH 5.7 at 0.1 mg/mL in dextrose 5%
ampicillin sodium	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH range of a 1% solution in water is 3.5 to 6.0. Ampicillin sodium: pH range of a solution in water containing an equivalent of ampicillin 1% is 8.0 to 10.0; Ampicillin trihydrate: pH range of a 1% solution in water is 3.5 to 6.0
azlocillin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
aztreonam	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
bleomycin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:

bortezomib	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
bumetanide	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
calcium chloride	Submitted by: Lisa Anderson, RN, BSN, CRNI, CPUI, VA-BC Reference: Intravenous Medications A Handbook for Nurses and Health Professionals 27th edition, 2011. Manual of I.V. Therapeutics, 4th edition, 2005. Comments:
calcium gluconate	Submitted by: Lisa Anderson, RN, BSN, CRI, CPUI, VA-BC Reference: 2011 Intravenous Medications A Handbook for Nurses and Health Professionals, 27th edition. Manual of I.V. Therapeutics, 4th edition, 2005. Comments: Antidote: hyaluronidase 150 units/ml as 0.2ml SQ injection x 5 doses
carboplatin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
carmustine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
cefamandole	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
cefazolin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
cefepime	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
cefotetan	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference

	Comments:
cefoxitin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
ceftazidime	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
ceftriaxone	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
cefuroxime	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
cephapirin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
ciprofloxacin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
cisplatin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
clofarabine	Submitted by: Mesha Park Reference: RN, OCN Comments:
cyclophosphamide	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH 3 to 9 (Reconstituted solution) Measured pH of 6.87 at 22 mg/mL
dacarbazine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH ranges low 3s to low 4s.

dactinomycin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
dalbavancin (Dalvance)	Submitted by: Jill Nolte Reference: Durata Thereapeutics Comments: pH Reconstituted Vial --- 20 mg/mL --- 4.5 Diluted in D5W for Infusion 1 mg/mL --- 4.3 5 mg/mL --- 4.0 Osmolarity Diluted in D5W --- 1.4 mg/mL --- 246 Diluted in D5W --- 3.3 mg/mL --- 228 Reconstituted Vial --- 20 mg/mL --- 76
daunorubicin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
deferoxamine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
dextrose 10% or greater	Submitted by: Lisa Anderson, RN, BSN, CRNI, CPUI, VA-BC Reference: 2011 Intravenous Medications A Handbook for Nurses and Health Professionals, 27th edition. Manual of I.V. Therapeutics, 4th edition, 2005. Comments: Antidote: subcutaneous hyaluronidase 150units/ml as 0.2ml injections x 5 osm/L 500-2526 (depending on cocentration)
diazepam	Submitted by: Sheila Hale, BSN, RN, CRNI, VA-BC Reference: US Pharmacist https://webcache.googleusercontent.com/search?q=cache:sQp3j8HU3wwJ:https://www.uspharmacist.com/article/diazepam-5-mgml-injection-32947+&cd=2&hl=en&ct=clnk&gl=us Comments:
diltiazem	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference

	Comments: pH 3.5 to 4.3 (liquid injection) pH 4 to 7 (reconstituted vial)
dobutamine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
dolasetron	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
dopamine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
doxapram	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
doxorubicin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
doxycycline, vibracycin	Submitted by: Tracy Ivory, RN, BSN, CRNI Reference: 2013 Intravenous Drug Book by Betty L Gahart and Adrienne R. Nazareno published by Elsevier Comments:
edetate disodium	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
epinephrine	Submitted by: Lisa Anderson, RN, BSN, CRNI, CPUI, VA-BC Reference: 2011 Intravenous Medications A Handbook for Nurses and Health Professionals, 27th edition. Manual of I.V. Therapeutics, 4th edition, 2005. Comments: Antidote: 5-10 ml phentolamine mesylate
epirubicin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:

esmolol	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
etoposide	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
floxuridine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
fluconazole	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH 4 to 8 (sodium chloride diluent) pH 3.5 to 6.5 (dextrose diluent)
flumazenil	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
fluorouracil	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
fluorouracil, 5fu	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
foscarnet	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
ganciclovir sodium	Submitted by: Lisa Anderson, RN, BSN, CRNI, CPUI, VA-BC Reference: 2011 Intravenous Medications A Handbook for Nurses and Health Professionals, 27th edition. Comments:
gatifloxacin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:

gemcitabine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
gentamicin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH 3 to 5.5 (injection) pH 4 to 4.5 (premixed infusion)
hydromorphone, dilaudid	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
idarubicin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
ifosfamide	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
imipenem	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
immune globulin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
irinotecan	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
iron dextran	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
levofloxacin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH 3.8 to 5.8 In dextrose 5% or sodium chloride 0.9%- pH 4.6 to 4.7 In dextrose 5% in lactated Ringers- pH 4.9 In Plasma-Lyte 56 with dextrose 5%- pH 5.0 In sodium lactate 1/6 M- pH 5.5

linezolid	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
lorazepam, ativan	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
mannitol	Submitted by: Lisa Anderson, RN, BSN, CRNI, CPUI, VA-BC Reference: 2011 Intravenous Medications A Handbook for Nurses and Health Professionals, 27th edition. Comments: osm/L 274-1098 (depending on concentration)
mechlorethamine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
meperidine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
meropenem	Submitted by: Michelle Bowman Reference: pH: http://www.thomsonhc.com/micromedex2 osm/L: INS Comments:
metaraminol	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
methocarbamol	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
methotrexate	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
metoclopramide	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
metronidazole	Submitted by: Ann Armstrong, RN

(flagyl)	Reference: http://www.rxlist.com/flagyl-injection-drug.htm Last updated 6/7/12 Comments:
mezlocillin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
midazolam	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
milrinone	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
minocycline	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
mitomycin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
mitoxantrone	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
morphine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
moxifloxacin	Submitted by: Linda C. Smith, MSN, RN, CRRN, VA-BC, CRNI Reference: Intravenous Medications 2011, 27th Ed, Gahart & Nazareno Comments:
nafcillin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
netilmicin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference

	Comments:
nicardipine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: Concentrate- Buffered solution having a pH of 3.5 Premixed Injections- pH 3.7 to 4.7
nitroprusside	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
norepinephrine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
octreotide	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
ofloxacin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
ondansetron	Submitted by: Daniel Juckette RN, VA-BC Reference: Archived Drug Label nim.nih.gov/archives/fdaDrugInfo.cfm Comments:
oxacillin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH 6 to 8.5 In D5W and NS- pH 7.5 to 7.9
oxaliplatin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
paclitaxel	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
pantoprazole, protonix	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference

	Comments:
pegaspargase	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
pentamidine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: Approximately pH 5.4 (60 to 100 mg/mL in sterile water for injection) Approximately pH 4.3 (60 to 100 mg/mL in dextrose 5%)
pentobarbital	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
pentostatin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
pentothal	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH 10.2 to 11.2 (at 80 mg/mL) pH 10 to 11 (at 25 mg/mL)
phenytoin	Submitted by: Alice Renken RN Reference: BARD-VASCULAR ACCESS DEVICE SELECTION,INSERTION AND MANAGEMENT Comments:
piperacillin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
potassium 20KCL	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
potassium over 40 kcl	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
promazine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference

	Comments:
promethazine, phenergan	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
propofol	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH 7 to 8.5 (Diprivan) pH 7 to 8.5 (Benzyl alcohol form) pH 4.5 to 6.6 (Sodium metabisulfite form)
quinupristin- dalfopristin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
rifampin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
rocuronium	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
sodium bicarbonate	Submitted by: Mesha Park Reference: RN, OCN Comments:
streptozocin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
teniposide	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
thiopental	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
ticarcillin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference

	Comments:
topotecan	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
vancomycin	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH 2.5 to 4.5 (Reconstituted solution) pH 3 to 5 (Premixed infusion)
vinblastine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: pH 3 to 3.5 (liquid injection) pH 3.5 to 5 (reconstituted injection)
vincristine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: Official range- pH 3.5 to 5.5 Manufacturer's stated range- pH 4.0 to 5.0
vindesine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments:
vinorelbine	Submitted by: Kevin Arnold, RN, BSN Reference: online drug reference Comments: