



Imipenem

PRODUCT DATA SHEET

Version 2.0

Revision Date: 10/10/2011

Product Name:	Imipenem
Product Number:	I001
CAS Number:	74431-23-5
Chemical Formula:	$C_{12}H_{17}N_3O_4S$
Molecular Weight:	299.347 g/mol
Appearance:	White powder
Description:	Imipenem is an intravenous β -lactam antibiotic developed in 1980. It has an extremely broad spectrum of activity.
Storage Temperature:	Store at 2-8°C

Working Concentrations:

Organism	Range (μ g/ml)
<i>Acinetobacter anitratus</i>	<=0.12 — >8
<i>Acinetobacter baumannii</i>	<=0.008 — >16
<i>Acinetobacter calcoaceticus</i>	<=0.12 — >8
<i>Acinetobacter haemolyticus</i>	<=0.008 — >16
<i>Acinetobacter junii</i>	<=0.12 — >8
<i>Acinetobacter lwoffii</i>	0.015 — 1
<i>Acinetobacter</i> spp.	0.06 — 0.5
<i>Actinomyces gerencseriae</i>	<=0.015 — 0.25
<i>Actinomyces graevenitzii</i>	<=0.015 — 0.25
<i>Actinomyces israelii</i>	<=0.03 — 0.25
<i>Actinomyces meyeri</i>	<=0.03 — 0.25
<i>Actinomyces naeslundii</i>	<=0.03 — 0.25
<i>Actinomyces neuii</i>	<=0.015 — 0.25
<i>Actinomyces odontolyticus</i>	<=0.03 — 0.25
<i>Actinomyces radingae</i>	<=0.015 — 0.25
<i>Actinomyces schalii</i>	<=0.015 — 0.25
<i>Actinomyces</i> spp.	<=0.008 — 2
<i>Actinomyces turicensis</i>	<=0.015 — 0.25
<i>Actinomyces viscosus</i>	<=0.015 — 0.25
<i>Actinomyces viscosus</i>	<=0.03 — 0.25

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<i>Aerococcus</i> spp.	<=0.008 — 4
<i>Aerococcus urinae</i>	<=0.008 — 4
<i>Aeromonas caviae</i>	0.25 — 4
<i>Aeromonas hydrophila</i>	0.25 — 4
<i>Aeromonas</i> spp.	0.25 — 4
<i>Alcaligenes faecalis</i>	0.06 — >16
<i>Alcaligenes odorans</i>	0.25 — 1
<i>Arcanobacterium pyogenes</i>	<=0.03 — 0.25
<i>Bacillus proteus</i>	4 — ?
<i>Bacillus</i> spp.	<=0.008 — 4
<i>Bacteroides caccae</i>	<=0.06 — 4
<i>Bacteroides distasonis</i>	0.03 — 1
<i>Bacteroides fragilis</i>	0.008 — 1
<i>Bacteroides merdae</i>	<=0.06 — 4
<i>Bacteroides ovatus</i>	0.06 — 0.5
<i>Bacteroides</i> spp.	<=0.004 — 4
<i>Bacteroides thetaiotaomicron</i>	0.03 — 1
<i>Bacteroides uniformis</i>	0.03 — 4
<i>Bacteroides vulgatus</i>	0.03 — 1
<i>Bifidobacterium adolescentis</i>	<=0.03 — 0.25
<i>Bifidobacterium bifidum</i>	<=0.03 — 0.25
<i>Bifidobacterium breve</i>	<=0.03 — 0.25
<i>Bifidobacterium catenulatum</i>	<=0.03 — 0.25
<i>Bifidobacterium dentium</i>	<=0.03 — 0.25
<i>Bifidobacterium longum</i>	<=0.03 — 0.25
<i>Bifidobacterium</i> spp.	0.015 — 0.5
<i>Bilophila wadsworthia</i>	0.06 — 0.25
<i>Bordetella bronchiseptica</i>	0.06 — >16
<i>Bordetella pertussis</i>	0.25 — 4
<i>Branhamella catarrhalis</i>	0.015 — 4
<i>Brevundimonas vesicularis</i>	0.06 — >16
<i>Burkholderia cepacia</i>	0.25 — >16
<i>Burkholderia</i> spp.	16 — >32
<i>Campylobacter fetus</i>	<=0.06 — 0.25
<i>Campylobacter jejuni</i>	<=0.008 — 0.06
<i>Campylobacter pylori</i>	<=0.008 — 0.015
<i>Citrobacter amalonaticus</i>	0.06 — 2
<i>Citrobacter braakii</i>	0.06 — 2
<i>Citrobacter diversus</i>	0.06 — 2
<i>Citrobacter farmeri</i>	<=0.5 — >8
<i>Citrobacter freundii</i>	0.6 — 80
<i>Citrobacter koseri</i>	<=0.12 — 2
<i>Citrobacter</i> spp.	<=0.5 — >8

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<i>Clostridium aminovalericum</i>	<=0.03 — 1
<i>Clostridium baratii</i>	<=0.03 — 1
<i>Clostridium bifermentans</i>	<=0.03 — 0.5
<i>Clostridium butyricum</i>	<=0.015 — 2
<i>Clostridium cadaveris</i>	<=0.015 — 2
<i>Clostridium clostridioforme</i>	0.5 — 2
<i>Clostridium cochlearium</i>	<=0.015 — 2
<i>Clostridium difficile</i>	4 — 16
<i>Clostridium fallax</i>	<=0.015 — 2
<i>Clostridium glycolicum</i>	<=0.03 — 1
<i>Clostridium innocuum</i>	1 — 2
<i>Clostridium leptum</i>	<=0.03 — 1
<i>Clostridium novyi</i>	<=0.03 — 1
<i>Clostridium oroticum</i>	<=0.015 — 2
<i>Clostridium paraputreficum</i>	<=0.015 — 2
<i>Clostridium perfringens</i>	0.008 — 0.06
<i>Clostridium ramosum</i>	0.125 — 0.25
<i>Clostridium sordellii</i>	<=0.03 — 0.5
<i>Clostridium sp.</i>	0.03 — 8
<i>Clostridium sphenoides</i>	<=0.03 — 1
<i>Clostridium sporogenes</i>	<=0.03 — 1
<i>Clostridium spp.</i>	<=0.008 — 2
<i>Clostridium subterminale</i>	<=0.03 — 1
<i>Clostridium symbiosum</i>	<=0.03 — 1
<i>Clostridium tertium</i>	0.125 — 0.5
<i>Collinsella aerofaciens</i>	<=0.03 — 0.25
<i>Commamonas spp.</i>	0.06 — >16
<i>Corynebacterium accolens</i>	<=0.015 — 4
<i>Corynebacterium afermentans</i>	<=0.03 — >32
<i>Corynebacterium amycolatum</i>	<=0.03 — >32
<i>Corynebacterium aquaticum</i>	<=0.03 — >32
<i>Corynebacterium falsenii</i>	<=0.015 — 4
<i>Corynebacterium jeikeium</i>	4 — >32
<i>Corynebacterium minutissimum</i>	<=0.03 — >32
<i>Corynebacterium pseudodiphtheriticum</i>	<=0.008 — >16
<i>Corynebacterium spp.</i>	<=0.007 — 0.25
<i>Corynebacterium striatum</i>	<=0.015 — 4
<i>Corynebacterium urealyticum</i>	<=0.015 — 4
<i>Corynebacterium xerosis</i>	<=0.03 — >32
<i>Dermabacter hominis</i>	<=0.015 — 4
<i>Eggerthella lenta</i>	0.5 — 1
<i>Eikenella corrodens</i>	<=0.12 — 1
<i>Enterobacter aerogenes</i>	0.125 — 2

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<i>Enterobacter agglomerans</i>	<=0.12 — 2
<i>Enterobacter amnigenus</i>	<=0.5 — 8
<i>Enterobacter asburiae</i>	<=0.5 — 8
<i>Enterobacter cancerogenus</i>	<=0.5 — >8
<i>Enterobacter cloacae</i>	0.063 — 0.25
<i>Enterobacter gergoviae</i>	<=0.5 — >8
<i>Enterobacter hormaechei</i>	<=0.5 — >8
<i>Enterobacter intermedium</i>	<=0.5 — >8
<i>Enterobacter intermedius</i>	0.12 — >16
<i>Enterobacter sakazakii</i>	<=0.12 — 2
<i>Enterobacter spp.</i>	<=0.5 — 8
<i>Enterobacter taylorae</i>	<=0.5 — >8
<i>Enterobacteriaceae</i>	<=0.5 — >8
<i>Enterococci</i>	0.25 — 128
<i>Enterococcus avium</i>	<=0.03 — >64
<i>Enterococcus casseliflavus</i>	0.03 — >16
<i>Enterococcus durans</i>	0.03 — >16
<i>Enterococcus faecalis</i>	0.25 — 8
<i>Enterococcus faecium</i>	<=0.03 — >64
<i>Enterococcus gallinarum</i>	0.03 — >16
<i>Enterococcus hirae</i>	<=1 — >8
<i>Enterococcus raffinosus</i>	0.03 — >16
<i>Enterococcus spp.</i>	1 — >8
<i>Escherichia coli</i>	0.015 — 12
<i>Eubacterium alactolyticum</i>	<=0.03 — 0.25
<i>Eubacterium brachy</i>	<=0.03 — 0.25
<i>Eubacterium combesii</i>	<=0.03 — 0.25
<i>Eubacterium contortum</i>	<=0.015 — 0.5
<i>Eubacterium lenthum</i>	<=0.008 — 2
<i>Eubacterium limosum</i>	<=0.03 — 0.25
<i>Eubacterium limosum</i>	<=0.015 — 0.5
<i>Eubacterium saburreum</i>	<=0.015 — 0.5
<i>Eubacterium tenue</i>	<=0.015 — 0.5
<i>Eubacterium timidum</i>	<=0.015 — 0.5
<i>Eubacterium yurii</i>	<=0.015 — 0.5
<i>Finegoldia magna</i>	<=0.015 — 0.25
<i>Flavobacterium breve</i>	0.06 — >16
<i>Flavobacterium mengosepticum</i>	0.06 — >16
<i>Fusobacterium mortiferum</i>	0.5 — 1
<i>Fusobacterium nucleatum</i>	<=0.016 — 0.06
<i>Fusobacterium sp.</i>	0.03 — 0.5
<i>Fusobacterium spp.</i>	0.008 — 1
<i>Fusobacterium varium</i>	1.5 — ?

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<i>Gemella morbillorum</i>	<=0.03 — 0.5
<i>Haemolytic streptococci</i>	0.002 — 0.25
<i>Haemophilus aegyptius</i>	<=0.008 — 2
<i>Haemophilus aphrophilus</i>	<=0.008 — 2
<i>Haemophilus haemolyticus</i>	<=0.008 — 2
<i>Haemophilus influenzae</i>	<=0.12 — 16
<i>Haemophilus parahaemolyticus</i>	<=0.008 — 2
<i>Haemophilus parainfluenzae</i>	<=0.008 — 2
<i>Haemophilus spp.</i>	0.25 — 4
<i>Hafnia alvei</i>	<=1 — 2
<i>Hafnia alvei</i>	0.06 — >16
<i>Helicobacter pylori</i>	0.05 — ?
<i>Klebsiella baumannii</i>	4 — ?
<i>Klebsiella ornithinolytica</i>	0.06 — >16
<i>Klebsiella oxytoca</i>	0.06 — 32
<i>Klebsiella ozaenae</i>	<=0.5 — >8
<i>Klebsiella pneumonia</i>	0.03 — 64
<i>Klebsiella spp.</i>	<=0.5 — >8
<i>Klebsiella terrigena</i>	<=0.5 — >8
<i>Lactobacillus acidophilus</i>	<=0.015 — 8
<i>Lactobacillus brevis</i>	<=0.03 — 8
<i>Lactobacillus casei</i>	<=0.03 — 8
<i>Lactobacillus catenaforme</i>	<=0.03 — 8
<i>Lactobacillus confusus</i>	<=0.03 — 8
<i>Lactobacillus delbrueckii</i>	<=0.03 — 8
<i>Lactobacillus fermentans</i>	<=0.015 — 8
<i>Lactobacillus fermentum</i>	<=0.03 — 8
<i>Lactobacillus jensenii</i>	<=0.015 — 8
<i>Lactobacillus lactis</i>	<=0.03 — 8
<i>Lactobacillus minutus</i>	<=0.015 — 8
<i>Lactobacillus oris</i>	<=0.015 — 8
<i>Lactobacillus plantarum</i>	<=0.03 — 8
<i>Lactobacillus rhamnosus</i>	<=0.015 — 8
<i>Lactobacillus spp.</i>	<=0.008 — 4
<i>Legionella pneumophila</i>	>=0.063 — ?
<i>Leuconostoc spp.</i>	<1000 — ?
<i>Listeria monocytogenes</i>	<=0.008 — 4
<i>Micrococcus spp.</i>	<=0.008 — 4
<i>Micromonas micros</i>	<=0.015 — 0.25
<i>Moraxella catarrhalis</i>	0.013 — 1
<i>Morganella morganii</i>	0.25 — 4
<i>Morganella spp.</i>	<=0.12 — 16
<i>Neisseria meningitidis</i>	0.03 — 1

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<i>Neisseria</i> spp.	0.004 — 0.25
<i>Pantoea agglomerans</i>	<=1 — 2
<i>Pasteurella multocida</i>	0.03 — 0.5
<i>Pasteurella</i> spp.	0.06 — >16
<i>Peptococcus</i> spp.	0.004 — 0.5
<i>Peptostreptococcus anaerobius</i>	0.004 — 0.50
<i>Peptostreptococcus asaccharolyticus</i>	<=0.03 — 0.06
<i>Peptostreptococcus magnus</i>	<=0.03 — 0.125
<i>Peptostreptococcus micros</i>	<=0.03 — 0.125
<i>Peptostreptococcus prevotii</i>	<=0.015 — 0.25
<i>Peptostreptococcus</i> sp.	0.03 — 0.5
<i>Peptostreptococcus</i> spp.	<=0.004 — 2
<i>Peptostreptococcus tetraadius</i>	<=0.016 — 0.5
<i>Plesiomonas shigelloides</i>	0.25 — 1
<i>Pneumococci</i>	0.002 — 0.25
<i>Porphyromonas</i> spp.	0.03 — 1
<i>Prevotella bivia</i>	0.03 — 2
<i>Prevotella buccae</i>	0.03 — 0.5
<i>Prevotella disiens</i>	0.03 — 2
<i>Prevotella intermedia</i>	0.03 — 0.03
<i>Prevotella nigrescens</i>	0.03 — 0.03
<i>Prevotella oris</i>	0.03 — 0.5
<i>Prevotella</i> spp.	0.03 — 0.12
<i>Propionibacterium acnes</i>	<=0.008 — 1
<i>Propionibacterium avidum</i>	<=0.03 — <=0.03
<i>Propionibacterium granulosum</i>	<=0.03 — <=0.03
<i>Proteus mirabilis</i>	0.06 — 16
<i>Proteus rettgeri</i>	1 — 16
<i>Proteus</i> spp.	0.5 — 8
<i>Proteus vulgaris</i>	0.25 — 16
<i>Providencia alcalifaciens</i>	1 — 16
<i>Providencia rettgeri</i>	0.5 — 2
<i>Providencia</i> spp.	1 — >32
<i>Providencia stuartii</i>	0.016 — 16
<i>Pseudomonas aeruginosa</i>	<=0.06 — >=32
<i>Pseudomonas cepacia</i>	8 — >128
<i>Pseudomonas flourescens</i>	0.12 — >16
<i>Pseudomonas paucimobilis</i>	0.12 — >16
<i>Pseudomonas putida</i>	0.12 — >16
<i>Pseudomonas</i> spp.	0.12 — >16
<i>Pseudomonas stutzeri</i>	0.12 — >16
<i>Pseudomonas vesicularis</i>	0.12 — >16
<i>Rothia</i> spp.	<0.015 — 4

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<i>Salmonella agona</i>	<=0.5 — 2
<i>Salmonella arizona</i>	<=0.5 — 2
<i>Salmonella bareilly</i>	<=0.5 — 2
<i>Salmonella enterica</i>	<=0.5 — 2
<i>Salmonella enteritidis</i>	0.125 — 2
<i>Salmonella hadar</i>	<=0.5 — 2
<i>Salmonella heidelberg</i>	<=0.5 — 2
<i>Salmonella infantis</i>	<=0.5 — 2
<i>Salmonella litchfield</i>	<=0.5 — 2
<i>Salmonella Montevideo</i>	<=0.5 — 2
<i>Salmonella muenchen</i>	<=0.5 — 2
<i>Salmonella Newport</i>	<=0.5 — 2
<i>Salmonella panama</i>	<=0.5 — 2
<i>Salmonella Paratyphi</i>	<=0.5 — 2
<i>Salmonella schwarzengrund</i>	<=0.5 — 2
<i>Salmonella</i> spp.	<=0.12 — 2
<i>Salmonella stanley</i>	<=0.5 — 2
<i>Salmonella stpaul</i>	<=0.5 — 2
<i>Salmonella thompson</i>	<=0.5 — 2
<i>Salmonella Typhi</i>	0.12 — 1
<i>Salmonella Typhimurium</i>	0.78 — ?
<i>Salmonella virchow</i>	<=0.5 — 2
<i>Serratia fonticola</i>	<=0.5 — >8
<i>Serratia liquefaciens</i>	0.06 — >16
<i>Serratia marcescens</i>	0.25 — 100
<i>Serratia odorifera</i>	<=0.5 — >8
<i>Serratia plymuthica</i>	<=0.5 — >8
<i>Serratia rubidaea</i>	0.06 — >16
<i>Serratia</i> spp.	<=0.12 — 16
<i>Shewanella putrefaciens</i>	0.06 — >16
<i>Shigella boydii</i>	0.06 — 0.5
<i>Shigella dysenteriae</i>	<=0.5 — ?
<i>Shigella flexneri</i>	0.06 — 0.5
<i>Shigella sonnei</i>	0.06 — 0.5
<i>Shigella</i> spp.	0.06 — 0.5
<i>Shigella dysenteriae</i>	0.125 — 2
<i>Staphylococci</i>	0.03 — 128
<i>Staphylococcus aureus</i>	? — ?
<i>Staphylococcus aureus</i>	<=0.12 — 64
<i>Staphylococcus epidermidis</i>	0.013 — 50
<i>Staphylococcus haemolyticus</i>	<=0.007 — >128
<i>Staphylococcus hominis</i>	<=0.007 — >128

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<i>Streptococcus agalactiae</i>	0.008 — 64
<i>Streptococcus bovis</i>	<=0.008 — 2
<i>Streptococcus bovis</i>	0.008 — 2
<i>Streptococcus milleri</i>	<=0.008 — 2
<i>Streptococcus mitis</i>	<=0.008 — 2
<i>Streptococcus mutans</i>	<=0.008 — 2
<i>Streptococcus pneumonia</i>	<0.007 — 0.03
<i>Streptococcus pneumonia</i>	0.004 — 0.25
<i>Streptococcus pyogenes</i>	0.002 — 0.008
<i>Streptococcus salivarius</i>	<=0.008 — 2
<i>Sutterella wadsworthensis</i>	0.03 — 16
<i>Veillonella parvula</i>	<=0.008 — 2
<i>Veillonella</i> spp.	0.015 — 0.5
<i>Xanthomonas maltophilia</i>	>=64 — ?
<i>Yersinia enterocolitica</i>	<=1 — ?