

Product	Temperature (°F)	Temperature (°C)	Specific Gravity (SG)
Acetaldehyde CH <sub>3</sub> CHO	61	16.1	0.79
Acetaldehyde CH <sub>3</sub> CHO	68	20	0.76
Acetic Acid	77	25	1.052
Acetic acid 5%- vinegar	59	15	1.006
Acetic acid 10%	59	15	1.014
Acetic acid 50%	59	15	1.061
Acetic acid 80%	59	15	1.075
Acetic acid- concentrated	59	15	1.055
Acetic acid anhydride (CH <sub>3</sub> COO) <sub>2</sub> O	59	15	1.087
Acetone CH <sub>3</sub> COCH <sub>3</sub>	68	20	0.792
Acetone CH <sub>3</sub> COCH <sub>3</sub>	77	25	0.787
Acetylene- liquid	-121	-85	0.62
Acetylene- liquid	70	21.1	0.38
Adipic Acid			0.72
Alcohol- allyl	68	20	0.855
Alcohol- butyl-n	68	20	0.81
Alcohol- butyl-n	158	70	0.78
Alcohol- ethyl (grain) C <sub>2</sub> H <sub>5</sub> OH	68	20	0.789
Alcohol- ethyl (grain) C <sub>2</sub> H <sub>5</sub> OH	77	25	0.787
Alcohol- ethyl (grain) C <sub>2</sub> H <sub>5</sub> OH	104	40	0.772
Alcohol- methyl (wood) CH <sub>3</sub> OH	68	20	0.79
Alcohol- methyl (wood) CH <sub>3</sub> OH	77	25	0.791
Alcohol- propyl	32	0	0.817
Alcohol- propyl	68	20	0.804
Alcohol- propyl	77	25	0.802
Aluminum sulfate 36% solution	60	15.6	1.055
Ammonia	0	-17.8	0.662
Ammonia- aqua	77	25	0.826
Aniline	32	0	1.035



*Specific gravity, also referred to as relative density, is a measure of the density of a substance in comparison to the density of water. The specific gravity of a liquid is the relative weight of that liquid compared to an equal volume of water.*

# Specific Gravity Chart

Aniline	68	20	1.022
Automotive crankcase oils SAE- 5W/10W/20W/30W/40W/50W	60	15.6	0.88-0.94
Automotive gear oils SAE- 75W/80W/85W/90W/140W/150W	60	15.6	0.88-0.94
Beer	60	15.6	1.01
Benzene (benzol) C <sub>6</sub> H <sub>6</sub>	32	0	0.899
Benzene (benzol) C <sub>6</sub> H <sub>6</sub>	60	15.6	0.885
Benzine			0.69
Bone oil	60	15.6	0.918
Boric acid H <sub>3</sub> BO <sub>3</sub>	46.4	8	1.014
Boric acid H <sub>3</sub> BO <sub>3</sub>	59	15	1.025
Bromine	32	0	2.9
Bromine	77	25	3.12
Butane- n	60	15.6	0.584
Butane- liquid	77	25	0.601
Butyric acid	68	20	0.959
Calcium chloride 5%	65	18.3	1.04
Calcium chloride 25%	60	15.6	1.23
Caproic Acid	77	25	0.924
Carbolic acid (phenol)	65	18.3	1.08
Carbon tetrachloride CCl <sub>4</sub>	68	20	1.594
Carbon disulfide CS <sub>2</sub>	32	0	1.293
Carbon disulfide CS <sub>2</sub>	68	20	1.263
Carene	77	25	0.86
Castor oil	68	20	0.96
Castor oil	104	40	0.95
China wood oil	60	15.6	0.943
Chloride	77	25	1.56
Chloroform	68	20	1.489
Chloroform	77	25	1.469
Chloroform	140	60	1.413
Citric Acid	77	25	1.665
Coconut oil	60	15.6	0.925
Cod liver oil	59	15	0.920-0.925
Corn oil	60	15.6	0.924

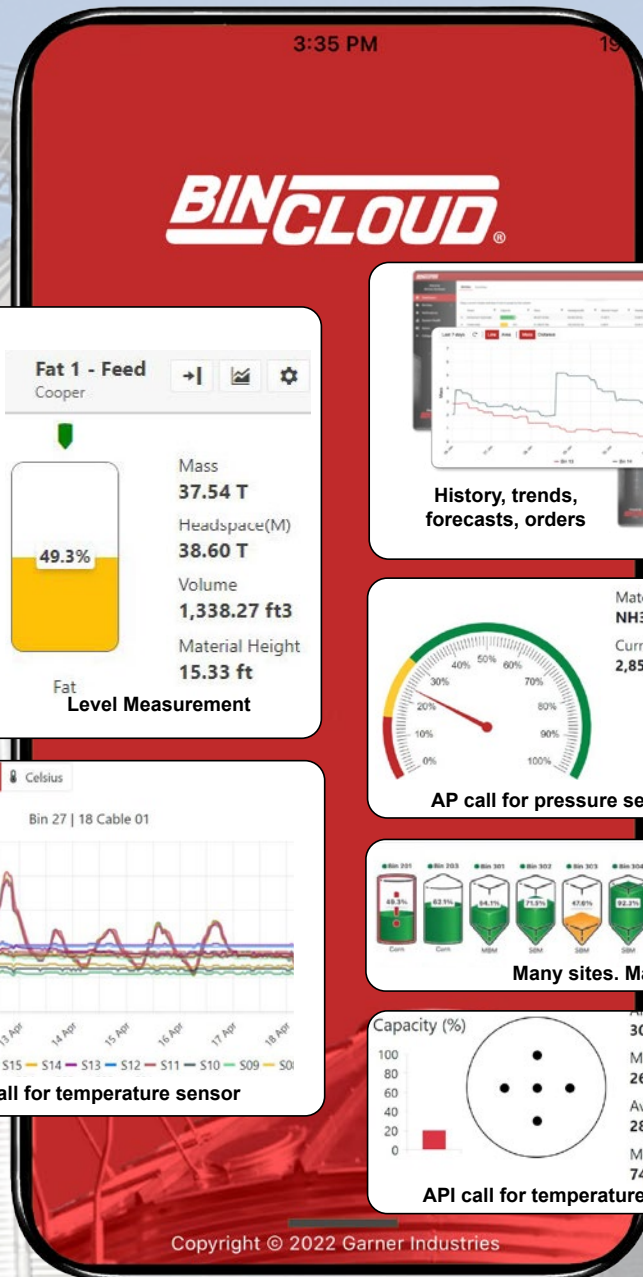


*BinMaster sensors measure material in silos, bins, and tanks. BinCloud shows levels.*

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# Manage bin material from a single screen



**Fat 1 - Feed**  
Cooper

Mass **37.54 T**  
Headspace(M) **38.60 T**  
Volume **1,338.27 ft3**  
Material Height **15.33 ft**

Fat Level Measurement: 49.3%

History, trends, forecasts, orders

Material NH3  
Current **2,851.92 gal**

AP call for pressure sensor

Bin 27 | 18 Cable 01

API call for temperature sensor

Many sites. Many bins. One login.

Capacity (%)

API call for temperature cables

30 °F	60
Min	Ht
26 °F	2,
Avg	Vc
28 °F	32
Max	M
74 °F	25



*Choosing the right sensor requires consideration of vessel size, material stored, and conditions of operation. BinMaster experts bring decades of experience during the conversation.*

**SENSORS**

# Specific Gravity Chart

Cotton seed oil	60	15.6	0.88-0.93
Cresol	77	25	1.027
Creosote	60	15.6	1.04-1.10
Crude oil 48° API	60	15.6	0.79
Crude oil 48° API	130	54.4	0.76
Crude oil 40° API	60	15.6	0.825
Crude oil 40° API	130	54.4	0.805
Crude oil 35.6° API	60	15.6	0.847
Crude oil 35.6° API	130	54.4	0.824
Crude oil 32.6° API	60	15.6	0.832
Crude oil 32.6° API	130	54.4	0.84
Crude oil salt creek	60	15.6	0.843
Crude oil salt creek	130	54.4	0.82
Cumene	77	25	0.862
Decane- n	68	20	0.73
Diethylene glycol	60	15.6	1.12
Diethyl ether	68	20	0.714
Diphenylamine			1.16
Diesel fuel oil 2D/3D/4D/5D	60	15.6	0.81-0.96
Dodecane	77	25	0.757
Dowtherm	77	25	1.056
Ethane	-128.2	-89	0.572
Ether, sulfuric			0.72
Ethyl acetate $\text{CH}_3\text{COOC}_2\text{H}_5$	59	15	0.907
Ethyl acetate $\text{CH}_3\text{COOC}_2\text{H}_5$	68	20	0.9
Ethyl bromide $\text{C}_2\text{H}_5\text{Br}$	59	15	1.45
Ethylamine	60.8	16	0.683
Ethylene bromide	68	20	2.18
Ethylene chloride	68	20	1.246
Ethylene glycol	60	15.6	1.125
Fluoric acid			1.5
Formaldehyde	113	45	0.815
Formic acid 10%	68	20	1.025
Formic acid 50%	68	20	1.121

# Specific Gravity Chart

Formic acid 80%	68	20	1.186
Formic acid- concentrated	68	20	1.221
Freon- 11	70	21.1	1.49
Freon- 12	70	21.1	1.33
Freon- 21	70	21.1	1.37
Furan	77	25	1.421
Furfurol	68	20	1.159
Fuel oils 1/2/3/5A/5B/6	60	15.6	0.82-0.95
Gas oils	60	15.6	0.89
Gasoline A	60	15.6	0.74
Gasoline B	60	15.6	0.72
Gasoline C	60	15.6	0.68
Glycerine 100%	68	20	1.26
Glycerine 50% water	68	20	1.13
Glycercol	77	25	1.129
Glucose	60	15.6	1.35-1.44
Heptane- n	60	15.6	0.688
Hexane- n	60	15.6	0.664
Hexanol	77	25	0.813
Hexene	77	25	0.673
Hydrazine	77	25	0.797
Ink printers	60	15.6	1.0-1.4
Jet fuel	60	15.6	0.82
Kerosene	60	15.6	0.78-0.82
Lard	60	15.6	0.96
Lard oil	60	15.6	0.91-0.93
Linolenic Acid	77	25	0.902
Linseed oil	60	15.6	0.92-0.94
Mercury	60	15.6	13.6
Methane	-263.2	-164	0.466
Methyl acetate	68	20	0.93
Methyl iodide	68	20	2.28
Mineral oil			0.92
Milk	60	15.6	1.02-1.05

Got a bin, silo,  
or tank to  
measure?  
BinMaster  
automates bulk  
material  
measurement.

**LET'S TALK**

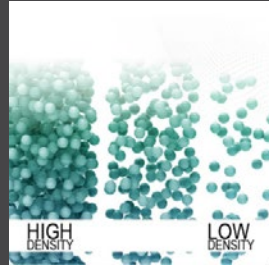
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# Specific Gravity Chart

Molasses A first	60	15.6	1.40-1.46
Molasses B second	60	15.6	1.43-1.48
Molasses C blackstrap	60	15.6	1.46-1.49
Muriatic acid			1.2
Naphtha- petroleum	59	15	0.667
Naphtha			0.76
Napthalene	68	20	1.145
Napthalene	77	25	0.963
Neatsfoot oil	60	15.6	0.917
Nitric acid			1.5
Nitrobenzene	59	15	1.205
Nitrobenzene	68	20	1.203
Nonane- n	60	15.6	0.722
Nonane- n	68	20	0.718
Nonanol	77	25	0.823
Octane- n	60	15.6	0.707
Olive oil	60	15.6	0.91-0.92
Oxygen	-297.4	-183	1.14
Palm oil	60	15.6	0.924
Palmitic Acid	77	25	0.853
Parole	77	25	0.969
Peanut oil	60	15.6	0.92
Pentane- n	32	0	0.65
Pentane- n	60	15.6	0.631
Pentane- n	77	25	0.755
Petroleum oil			0.82
Phenol	77	25	1.075
Phosgene	32	0	1.381
Phosphoric acid			1.78
Phytadiene	77	25	0.826
Pinene	77	25	0.858
Potassium hydrate			1.24
Propane	-40	-40	0.585
Propane	77	25	0.495



*Bulk material consideration often requires a look at Bulk Density. Check this article on bulk density which is a material's weight in lb./ft<sup>3</sup> or g/cm<sup>3</sup>.*

**About density**

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# STAY ON TOP of bulk inventory

LEARN MORE



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# Specific Gravity Chart

Propylene	77	25	0.516
Propylene glycol	77	25	1.036
Pyridine	77	25	0.968
Rapeseed oil			0.92
Resorcinol	77	25	1.272
Sabiname	77	25	0.814
Silane	77	25	0.719
Sodium chloride			1.19
Sodium hydrate			1.27
Sorbaldehyde	77	25	0.898
Stearic Acid	77	25	0.941
Styrene	77	25	0.906
Sulphuric acid			1.84
Tar			1
Terpinene	77	25	0.85
Toluene	77	25	0.865
Turpentine oil			0.87
Vinegar			1.08
Water- fresh			1
Water- sea			1.02
Whale oil			0.92
Wood	77	25	0.701
Xylene			0.87

Specific density is the ratio of density of the substance to the density of water at 4°C

Based on water at 60 °F and SG = 1

$$T(^{\circ}C) = 5/9[T(^{\circ}F) - 32]$$

$$T(^{\circ}F) = [T(^{\circ}C)](9/5) + 32$$

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