

2-Heptanone

Other names:	2-Heptanal 2-Ketoheptane Amyl methyl ketone Amyl-methyl-cetone BUTYLACETONE Heptan-2-one Heptanone-2 Ketone C-7 Ketone, methyl pentyl Methyl amyl ketone Methyl n-amyl ketone Methyl n-pentyl ketone Methyl pentyl ketone Methyl-amyl-cetone N-PENTYL METHYL KETONE NSC 7313 Pentyl methyl ketone UN 1110 n-Amyl methyl ketone n-C ₅ H ₁₁ COCH ₃
Inchi:	InChI=1S/C7H14O/c1-3-4-5-6-7(2)8/h3-6H2,1-2H3
InchiKey:	CATSNJVOTSVZJV-UHFFFAOYSA-N
Formula:	C ₇ H ₁₄ O
SMILES:	CCCCC(C)=O
Mol. weight [g/mol]:	114.19
CAS:	110-43-0

Physical Properties

Property code	Value	Unit	Source
af	0.4830		KDB
fl	1.11	% in Air	KDB
flu	7.90	% in Air	KDB
fpc	320.37	K	KDB
fpo	312.04	K	KDB
gf	-120.86	kJ/mol	Joback Method
hf	-300.39	kJ/mol	Joback Method

hfus	19.09			Measurements, Correlations, and Mod. UNIFAC (Do) Prediction of (Solid-Liquid) Phase Equilibria Diagrams in Binary Systems (Aliphatic Ketone + an Alcohol)
hvap	47.40 ± 0.30		kJ/mol	NIST Webbook
hvap	48.50		kJ/mol	NIST Webbook
hvap	48.00		kJ/mol	NIST Webbook
hvap	47.20 ± 0.10		kJ/mol	NIST Webbook
hvap	47.24 ± 0.05		kJ/mol	NIST Webbook
hvap	46.10		kJ/mol	NIST Webbook
ie	9.33 ± 0.03		eV	NIST Webbook
ie	9.30 ± 0.01		eV	NIST Webbook
ie	9.36		eV	NIST Webbook
ie	9.27 ± 0.06		eV	NIST Webbook
ie	9.18 ± 0.02		eV	NIST Webbook
ie	9.79		eV	NIST Webbook
log10ws	-1.45			Estimated Solubility Method
log10ws	-1.42			Aqueous Solubility Prediction Method
logp	2.156			Crippen Method
mvol	111.060		ml/mol	McGowan Method
nfpaf	%!d(float64=2)			KDB
nfpah	%!d(float64=1)			KDB
pc	3440.00 ± 4.00		kPa	NIST Webbook
pc	3436.00		kPa	KDB
rhoc	261.48 ± 3.43		kg/m3	NIST Webbook
rinpol	896.00			NIST Webbook
rinpol	872.00			NIST Webbook
rinpol	870.00			NIST Webbook
rinpol	880.00			NIST Webbook
rinpol	874.00			NIST Webbook
rinpol	859.00			NIST Webbook
rinpol	859.00			NIST Webbook
rinpol	865.00			NIST Webbook
rinpol	869.00			NIST Webbook
rinpol	899.00			NIST Webbook
rinpol	874.00			NIST Webbook
rinpol	894.00			NIST Webbook
rinpol	889.00			NIST Webbook
rinpol	869.00			NIST Webbook
rinpol	901.00			NIST Webbook
rinpol	846.00			NIST Webbook
rinpol	892.00			NIST Webbook

rinpol	888.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	895.00	NIST Webbook
rinpol	872.00	NIST Webbook
rinpol	873.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	865.00	NIST Webbook
rinpol	883.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	886.00	NIST Webbook
rinpol	897.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	883.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	886.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	899.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	899.00	NIST Webbook

rinpol	882.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	886.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	878.00	NIST Webbook
rinpol	902.00	NIST Webbook
rinpol	908.00	NIST Webbook
rinpol	863.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	886.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	882.00	NIST Webbook
rinpol	887.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	854.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	882.00	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	898.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	911.00	NIST Webbook
rinpol	899.00	NIST Webbook
rinpol	873.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	883.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	860.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	902.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	865.00	NIST Webbook
rinpol	865.00	NIST Webbook

rinpol	872.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	863.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	884.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	865.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	865.00	NIST Webbook
rinpol	872.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	865.00	NIST Webbook
rinpol	865.00	NIST Webbook
rinpol	886.00	NIST Webbook
rinpol	877.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	871.95	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	896.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	872.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	891.00	NIST Webbook

rinpol	893.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	893.70	NIST Webbook
rinpol	888.00	NIST Webbook
rinpol	905.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	872.00	NIST Webbook
rinpol	880.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	905.00	NIST Webbook
rinpol	895.00	NIST Webbook
rinpol	877.10	NIST Webbook
rinpol	900.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	866.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	859.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	880.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	897.00	NIST Webbook
rinpol	866.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	877.00	NIST Webbook
rinpol	885.00	NIST Webbook
rinpol	895.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	893.00	NIST Webbook

rinpol	892.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	895.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	844.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	872.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	897.00	NIST Webbook
rinpol	874.00	NIST Webbook
rinpol	866.00	NIST Webbook
rinpol	873.00	NIST Webbook
rinpol	856.00	NIST Webbook
rinpol	868.70	NIST Webbook
rinpol	870.20	NIST Webbook
rinpol	838.00	NIST Webbook
rinpol	853.00	NIST Webbook
rinpol	901.00	NIST Webbook
rinpol	868.70	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	868.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	870.20	NIST Webbook
rinpol	876.50	NIST Webbook
rinpol	892.30	NIST Webbook
rinpol	893.30	NIST Webbook
rinpol	894.70	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	873.00	NIST Webbook
rinpol	853.00	NIST Webbook
rinpol	855.00	NIST Webbook
rinpol	846.00	NIST Webbook
rinpol	838.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	845.00	NIST Webbook

rinpol	854.00	NIST Webbook
rinpol	846.00	NIST Webbook
rinpol	853.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	874.00	NIST Webbook
rinpol	865.00	NIST Webbook
rinpol	873.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	878.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	873.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	877.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	900.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	849.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	905.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	898.00	NIST Webbook
rinpol	898.00	NIST Webbook
rinpol	898.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	902.00	NIST Webbook
rinpol	877.10	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	895.00	NIST Webbook
rinpol	846.90	NIST Webbook

rinpol	887.30	NIST Webbook
rinpol	902.00	NIST Webbook
rinpol	898.00	NIST Webbook
rinpol	900.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	859.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	869.00	NIST Webbook
rinpol	869.90	NIST Webbook
rinpol	872.00	NIST Webbook
rinpol	859.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	894.00	NIST Webbook
rinpol	887.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	879.00	NIST Webbook
rinpol	900.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	872.00	NIST Webbook
rinpol	874.00	NIST Webbook
rinpol	876.00	NIST Webbook
rinpol	863.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	860.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	867.00	NIST Webbook
rinpol	870.00	NIST Webbook
rinpol	865.00	NIST Webbook
rinpol	866.00	NIST Webbook
rinpol	864.00	NIST Webbook
rinpol	877.00	NIST Webbook
rinpol	865.00	NIST Webbook
rinpol	873.00	NIST Webbook
rinpol	873.00	NIST Webbook

rinpol	844.00	NIST Webbook
rinpol	875.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	852.00	NIST Webbook
rinpol	856.00	NIST Webbook
rinpol	873.00	NIST Webbook
rinpol	901.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	890.00	NIST Webbook
rinpol	899.00	NIST Webbook
rinpol	898.00	NIST Webbook
rinpol	871.00	NIST Webbook
rinpol	891.00	NIST Webbook
rinpol	882.00	NIST Webbook
rinpol	882.00	NIST Webbook
rinpol	893.00	NIST Webbook
rinpol	884.00	NIST Webbook
rinpol	892.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	898.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	889.00	NIST Webbook
rinpol	902.00	NIST Webbook
rinpol	884.00	NIST Webbook
ripol	1177.00	NIST Webbook
ripol	1213.80	NIST Webbook
ripol	1195.80	NIST Webbook
ripol	1201.90	NIST Webbook
ripol	1207.60	NIST Webbook
ripol	1184.00	NIST Webbook
ripol	1185.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1190.00	NIST Webbook
ripol	1178.00	NIST Webbook
ripol	1175.00	NIST Webbook
ripol	1183.00	NIST Webbook
ripol	1181.00	NIST Webbook
ripol	1184.00	NIST Webbook
ripol	1175.00	NIST Webbook
ripol	1173.00	NIST Webbook
ripol	1173.00	NIST Webbook
ripol	1193.00	NIST Webbook
ripol	1193.00	NIST Webbook
ripol	1213.00	NIST Webbook

ripol	1173.00	NIST Webbook
ripol	1173.00	NIST Webbook
ripol	1174.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1200.00	NIST Webbook
ripol	1185.00	NIST Webbook
ripol	1185.00	NIST Webbook
ripol	1196.00	NIST Webbook
ripol	1178.00	NIST Webbook
ripol	1182.00	NIST Webbook
ripol	1172.00	NIST Webbook
ripol	1183.00	NIST Webbook
ripol	1173.00	NIST Webbook
ripol	1189.00	NIST Webbook
ripol	1185.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1172.00	NIST Webbook
ripol	1195.00	NIST Webbook
ripol	1179.00	NIST Webbook
ripol	1185.00	NIST Webbook
ripol	1173.00	NIST Webbook
ripol	1183.00	NIST Webbook
ripol	1194.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1177.00	NIST Webbook
ripol	1185.00	NIST Webbook
ripol	1185.00	NIST Webbook
ripol	1174.00	NIST Webbook
ripol	1176.00	NIST Webbook
ripol	1192.00	NIST Webbook
ripol	1158.00	NIST Webbook
ripol	1160.00	NIST Webbook
ripol	1182.00	NIST Webbook
ripol	1172.00	NIST Webbook
ripol	1186.00	NIST Webbook
ripol	1192.00	NIST Webbook
ripol	1192.00	NIST Webbook
ripol	1173.00	NIST Webbook
ripol	1172.00	NIST Webbook
ripol	1170.00	NIST Webbook
ripol	1160.00	NIST Webbook
ripol	1172.00	NIST Webbook
ripol	1172.00	NIST Webbook
ripol	1188.00	NIST Webbook

ripol	1185.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1177.00	NIST Webbook
ripol	1178.00	NIST Webbook
ripol	1191.00	NIST Webbook
ripol	1189.00	NIST Webbook
ripol	1189.00	NIST Webbook
ripol	1195.00	NIST Webbook
ripol	1190.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1183.00	NIST Webbook
ripol	1216.00	NIST Webbook
ripol	1170.00	NIST Webbook
ripol	1190.00	NIST Webbook
ripol	1185.00	NIST Webbook
ripol	1176.00	NIST Webbook
ripol	1187.00	NIST Webbook
ripol	1172.00	NIST Webbook
ripol	1158.00	NIST Webbook
ripol	1158.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1160.00	NIST Webbook
ripol	1160.00	NIST Webbook
ripol	1172.00	NIST Webbook
ripol	1168.00	NIST Webbook
ripol	1158.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1151.00	NIST Webbook
ripol	1171.00	NIST Webbook
ripol	1178.00	NIST Webbook
ripol	1199.00	NIST Webbook
ripol	1190.00	NIST Webbook
ripol	1178.00	NIST Webbook
ripol	1191.00	NIST Webbook
ripol	1188.00	NIST Webbook
ripol	1169.00	NIST Webbook
ripol	1183.00	NIST Webbook
ripol	1160.00	NIST Webbook
ripol	1160.00	NIST Webbook
ripol	1198.00	NIST Webbook
ripol	1177.00	NIST Webbook
ripol	1181.00	NIST Webbook
ripol	1184.00	NIST Webbook

ripol	1179.00	NIST Webbook
ripol	1182.00	NIST Webbook
ripol	1191.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1206.00	NIST Webbook
ripol	1205.00	NIST Webbook
ripol	1205.00	NIST Webbook
ripol	1200.00	NIST Webbook
ripol	1164.00	NIST Webbook
ripol	1165.00	NIST Webbook
ripol	1175.00	NIST Webbook
ripol	1192.00	NIST Webbook
ripol	1192.00	NIST Webbook
ripol	1188.00	NIST Webbook
ripol	1189.00	NIST Webbook
ripol	1182.00	NIST Webbook
ripol	1191.00	NIST Webbook
ripol	1185.00	NIST Webbook
ripol	1191.00	NIST Webbook
ripol	1181.00	NIST Webbook
ripol	1174.00	NIST Webbook
ripol	1171.00	NIST Webbook
ripol	1158.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1154.00	NIST Webbook
ripol	1179.00	NIST Webbook
ripol	1180.00	NIST Webbook
ripol	1194.00	NIST Webbook
ripol	1206.00	NIST Webbook
ripol	1198.00	NIST Webbook
ripol	1199.00	NIST Webbook
ripol	1207.00	NIST Webbook
ripol	1173.00	NIST Webbook
ripol	1172.00	NIST Webbook
ripol	1188.00	NIST Webbook
ripol	1191.00	NIST Webbook
ripol	1178.00	NIST Webbook
ripol	1183.00	NIST Webbook
ripol	1193.00	NIST Webbook
ripol	1198.00	NIST Webbook
ripol	1201.00	NIST Webbook
ripol	1189.00	NIST Webbook
ripol	1187.00	NIST Webbook
ripol	1188.00	NIST Webbook

ripol	1185.00		NIST Webbook
ripol	1185.00		NIST Webbook
ripol	1187.00		NIST Webbook
ripol	1181.00		NIST Webbook
ripol	1174.00		NIST Webbook
ripol	1160.00		NIST Webbook
ripol	1172.00		NIST Webbook
ripol	1188.00		NIST Webbook
ripol	1184.00		NIST Webbook
ripol	1183.00		NIST Webbook
ripol	1171.00		NIST Webbook
ripol	1195.00		NIST Webbook
ripol	1194.00		NIST Webbook
ripol	1178.00		NIST Webbook
ripol	1178.00		NIST Webbook
ripol	1145.00		NIST Webbook
ripol	1179.00		NIST Webbook
ripol	1185.00		NIST Webbook
ripol	1178.00		NIST Webbook
ripol	1162.00		NIST Webbook
ripol	1161.00		NIST Webbook
ripol	1183.00		NIST Webbook
ripol	1185.00		NIST Webbook
ripol	1185.00		NIST Webbook
ripol	1200.00		NIST Webbook
ripol	1208.00		NIST Webbook
tb	424.15 ± 0.50	K	NIST Webbook
tb	424.25 ± 0.50	K	NIST Webbook
tb	424.20	K	KDB
tb	422.70	K	NIST Webbook
tb	424.60	K	NIST Webbook
tb	424.65	K	NIST Webbook
tb	423.65 ± 1.00	K	NIST Webbook
tb	424.00 ± 0.40	K	NIST Webbook
tb	424.00 ± 0.40	K	NIST Webbook
tb	424.15 ± 1.00	K	NIST Webbook
tb	423.65 ± 0.50	K	NIST Webbook
tb	424.18 ± 0.10	K	NIST Webbook
tb	418.15 ± 10.00	K	NIST Webbook
tb	425.15 ± 2.00	K	NIST Webbook
tb	421.95 ± 1.00	K	NIST Webbook
tb	422.90 ± 1.00	K	NIST Webbook
tb	423.65 ± 3.00	K	NIST Webbook
tb	423.40 ± 0.50	K	NIST Webbook

tb	423.15 ± 1.00	K	NIST Webbook
tb	424.40 ± 0.50	K	NIST Webbook
tb	424.65 ± 1.00	K	NIST Webbook
tb	421.65 ± 2.00	K	NIST Webbook
tb	420.65 ± 4.00	K	NIST Webbook
tb	423.65 ± 1.00	K	NIST Webbook
tb	422.00 ± 10.00	K	NIST Webbook
tb	423.56 ± 0.20	K	NIST Webbook
tb	424.60 ± 0.20	K	NIST Webbook
tb	424.65 ± 1.00	K	NIST Webbook
tb	424.15 ± 1.00	K	NIST Webbook
tb	422.15 ± 2.00	K	NIST Webbook
tb	417.15 ± 10.00	K	NIST Webbook
tb	423.15 ± 1.00	K	NIST Webbook
tb	423.40 ± 0.20	K	NIST Webbook
tb	424.15 ± 1.00	K	NIST Webbook
tb	417.65 ± 10.00	K	NIST Webbook
tc	611.50	K	KDB
tc	611.50 ± 0.40	K	NIST Webbook
tc	611.40 ± 0.30	K	NIST Webbook
tf	238.15	K	NIST Webbook
tf	238.00	K	KDB
vc	0.433	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.81	J/molxK	442.86	Joback Method
cpg	237.73	J/molxK	472.29	Joback Method
cpg	248.21	J/molxK	501.71	Joback Method
cpg	258.27	J/molxK	531.14	Joback Method
cpg	267.92	J/molxK	560.57	Joback Method
cpg	277.17	J/molxK	590.00	Joback Method
cpg	215.46	J/molxK	413.43	Joback Method
dvisc	0.0041439	Paxs	218.58	Joback Method
dvisc	0.0011589	Paxs	283.53	Joback Method
dvisc	0.0007459	Paxs	316.00	Joback Method
dvisc	0.0005212	Paxs	348.48	Joback Method
dvisc	0.0020181	Paxs	251.05	Joback Method
dvisc	0.0003871	Paxs	380.95	Joback Method
dvisc	0.0003013	Paxs	413.43	Joback Method

hfust	19.71	kJ/mol	237.70	NIST Webbook
hfust	19.71	kJ/mol	237.70	NIST Webbook
hvapt	47.50	kJ/mol	363.50	NIST Webbook
hvapt	39.10	kJ/mol	464.50	NIST Webbook
hvapt	44.70	kJ/mol	392.00	NIST Webbook
hvapt	39.50	kJ/mol	422.20	NIST Webbook
pvap	40.52	kPa	393.11	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	75.05	kPa	413.30	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	83.20	kPa	416.77	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	91.50	kPa	420.20	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	40.00	kPa	392.54	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane

pvap	29.69	kPa	383.83	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	29.69	kPa	383.78	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	25.32	kPa	379.25	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	25.32	kPa	379.30	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	20.76	kPa	373.84	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane

pvap	20.76	kPa	373.79	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	17.34	kPa	368.90	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	34.81	kPa	388.51	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	15.05	kPa	365.38	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	11.52	kPa	358.59	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane

pvap	9.87	kPa	354.77	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	60.35	kPa	405.81	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	55.74	kPa	403.15	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	48.09	kPa	398.45	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
pvap	67.50	kPa	409.67	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane

pvap	16.52	kPa	367.88	Vapor Liquid Equilibria Measurements for the Nine n-Alkane/Ketone Pairs Comprising 2-, 3-, and 4-Heptanone with n-Octane, n-Nonane, and n-Decane
rhoI	815.39	kg/m3	293.15	Thermodynamics of amide + ketone mixtures. 1. Volumetric, speed of sound and refractive index data for N,N-dimethylformamide + 2-alkanone systems at several temperatures
rhoI	820.00	kg/m3	288.00	KDB
rhoI	811.16	kg/m3	298.15	Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpies at 298.15K for dipropylamine, or dibutylamine + 2-alkanone systems and modeling of linear or aromatic amine + 2-alkanone mixtures in terms of DISQUAC and ERAS
rhoI	811.16	kg/m3	298.15	Thermodynamics of Ketone + Amine Mixtures. Part VIII. Molar Excess Enthalpies at 298.15 K for n-Alkanone + Aniline or + N-Methylaniline Systems
rhoI	811.20	kg/m3	298.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure

rho1	798.22	kg/m3	313.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rho1	802.56	kg/m3	308.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rho1	806.89	kg/m3	303.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rho1	815.50	kg/m3	293.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rho1	819.79	kg/m3	288.15	Volumetric properties of binary liquid mixtures of ketones with chloroalkanes at different temperatures and atmospheric pressure
rho1	806.81	kg/m3	303.15	Thermodynamics of amide + ketone mixtures. 1. Volumetric, speed of sound and refractive index data for N,N-dimethylformamide + 2-alkanone systems at several temperatures

rhoI	811.08	kg/m ³	298.15	Thermodynamics of amide + ketone mixtures. 1. Volumetric, speed of sound and refractive index data for N,N-dimethylformamide + 2-alkanone systems at several temperatures
rhoI	811.16	kg/m ³	298.15	Thermodynamics of ketone + amine mixtures. Part X. Excess molarenthalpies at 298.15 K for N,N,N-triethylamine + 2-alkanone systems. Characterization of tertiary amine + 2-alkanone, and of amino-ketone + n-alkane mixtures in terms of DISQUAC
speedsI	1281.92	m/s	293.15	Thermodynamics of (ketone + amine) mixtures. Part VI. Volumetric and speed of sound data at (293.15, 298.15, and 303.15) K for (2-heptanone + dipropylamine, +dibutylamine, or +triethylamine) systems
speedsI	1262.49	m/s	298.15	Thermodynamics of (ketone + amine) mixtures. Part VI. Volumetric and speed of sound data at (293.15, 298.15, and 303.15) K for (2-heptanone + dipropylamine, +dibutylamine, or +triethylamine) systems

speedsl	1244.14	m/s	303.15	Thermodynamics of (ketone + amine) mixtures. Part VI. Volumetric and speed of sound data at (293.15, 298.15, and 303.15) K for (2-heptanone + dipropylamine, +dibutylamine, or +triethylamine) systems
---------	---------	-----	--------	--

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	384.20	K	2.80	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.50362e+01
Coeff. B	-3.80179e+03
Coeff. C	-5.90720e+01
Temperature range (K), min.	316.84
Temperature range (K), max.	450.01

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	1.02039e+02
Coeff. B	-9.16636e+03
Coeff. C	-1.27418e+01
Coeff. D	7.09544e-06
Temperature range (K), min.	238.15
Temperature range (K), max.	611.55

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
KDB Vapor Pressure Data:	https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=1204
A relative headspace method for Henry's constants of volatile organic compounds, Correlations, and Mod.	https://www.doi.org/10.1016/j.fluid.2005.02.006
UNIFAC (Do) Prediction of Vapor Pressure	https://www.doi.org/10.1021/je100725a
Thermodynamics of amide + ketone mixtures. 1. Volumetric, speed of sound, and refractive index data for N,N-dimethylformamide + 2-alkanone systems at several temperatures:	https://www.doi.org/10.1021/je200333p
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.thermo.com/files/research/kdb/mol/mol1204.mol
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.doi.org/10.1016/j.jct.2016.02.016
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://en.wikipedia.org/wiki/Joback_method
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	http://webbook.nist.gov/cgi/cbook.cgi?ID=C110430&Units=SI
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.doi.org/10.1016/j.fluid.2013.01.011
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.doi.org/10.1016/j.jct.2004.08.002
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.doi.org/10.1021/acs.jced.8b00635
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.doi.org/10.1016/j.fluid.2013.07.037
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.doi.org/10.1016/j.fluid.2008.02.021
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.doi.org/10.1016/j.jct.2011.05.003
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	https://www.doi.org/10.1016/j.tca.2013.03.031
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx
Thermodynamics of ketone + amine mixtures. Part IX. Excess molar enthalpy, vapor, and speed of sound data for the acetone + 2-alkanone systems at infinite dilution of solutions in their own vapors and in 2-alkanone	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Solubility of fragrance raw materials in water: Experimental study, Vapor-Liquid Equilibrium Measurements for the Nine n-Alkane/Ketone Pairs	https://www.doi.org/10.1016/j.jct.2010.07.013
Solubility of fragrance raw materials in water: Experimental study, Vapor-Liquid Equilibrium Measurements for the Nine n-Alkane/Ketone Pairs	https://www.doi.org/10.1021/je500731x
Solubility of fragrance raw materials in water: Experimental study, Vapor-Liquid Equilibrium Measurements for the Nine n-Alkane/Ketone Pairs	https://www.doi.org/10.1021/je0600956

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
fl:	Lower Flammability Limit
flu:	Upper Flammability Limit
fpc:	Flash Point (Closed Cup Method)
fpo:	Flash Point (Open Cup Method)
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature

h_{vap}:	Enthalpy of vaporization at standard conditions
h_{vapt}:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
nf_{paf}:	NFPA Fire Rating
nf_{pah}:	NFPA Health Rating
pc:	Critical Pressure
p_{vap}:	Vapor pressure
ρ_{hc}:	Critical density
ρ_h:	Liquid Density
ri_{npol}:	Non-polar retention indices
ri_{pol}:	Polar retention indices
speed_{sl}:	Speed of sound in fluid
tb:	Normal Boiling Point Temperature
t_{brp}:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/66-130-4/2-Heptanone.pdf>

Generated by Cheméo on 2024-04-19 22:46:47.682252302 +0000 UTC m=+15856056.602829613.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.